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# Revision History

| Version | Date | Contents Revised |
|---|---|---|
| 8130M80000000 | September 2005 | Initial release |
| 8130M80000010 | September 2006 | 1) Semiconductor data upgrading ( Flash ROM & DTMF Receive)<br>2) Component description upgrading (IC103 & IC122 in Tx-Rx Unit)<br>3) Part List 1 upgrading<br>4) Part Number of Part List 2 upgrading |
| 8130M80000020 | September 2009 | 1) watchdog circuit update<br>2) PCB circuit update<br>3) Mechanical parts update |

# Introduction

## Manual Scope

This manual is intended for use by experienced technicians familiar with similar types of communication equipment. It contains all service information required for the equipment and is current as of the publication date.

# Safety Information

The following safety precautions shall always be observed during operation, service and repair of this equipment.

- This equipment shall be serviced by qualified technicians only.
- Do not modify the radio for any reason.
- Use only HYT supplied or approved antenna.
- Gain of antenna must not exceed 3dBi for VHF or 5.5dBi for UHF.
- Mobile antenna Installation: Install the mobile antenna at least 82cm (32 inches) away from your body, in accordance with the requirements of the antenna manufacturer/supplier.
- Transmit only when people inside and outside the vehicle are at least the minimum distance away from a properly installed, externally mounted antenna.
- Mobile antenna substitution: Don’t substitute HYT supplied or approved antenna, or excessive radio frequency radiation will result. Please contact your dealer or the manufacturer for further

instructions.

- Please make sure there's no stress on the antenna joint during transportation or installation.
- To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any area where posted notices instruct you to do so. Hospital or health facilities may be using equipment that is sensitive to external RF energy.
- For vehicles with an air bag, do not place a radio in the area over an air bag or in the air bag deployment area.
- Turn off your radio prior to entering any area with explosive and flammable materials.
- Do not expose the radio to direct sunlight over a long time, nor place it close to heating source.

## ■ Operation Guidelines

For vehicles equipped with electronic anti-skid braking systems, electronic ignition systems or electronic fuel injection systems, interferences may occur during radio transmission. If the foregoing electronic equipments are installed on your vehicle, please contact your dealer for further assistance to make sure that radio transmission will not interfere with these equipments.

For radio installation in vehicles fueled by LP gas with LP gas container within interior of the vehicles, the following precautions are recommended for personal safety.

1. Any space containing radio equipment shall be isolated by a seal from the space in which the LP gas container and its fittings are located.
2. Remote (outside) fitting connections shall be used.
3. Good ventilation is required for the container space.

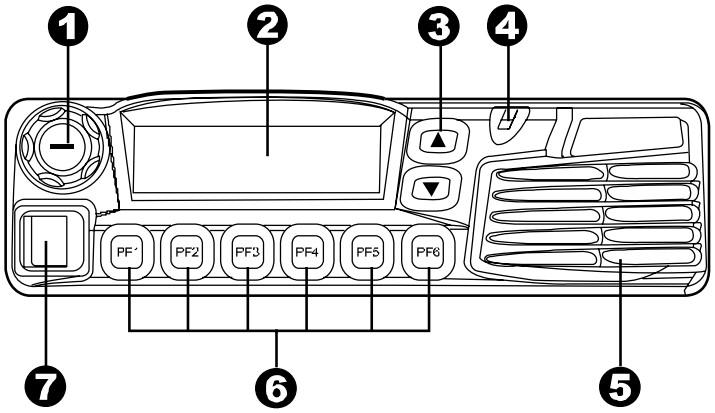
## ■ Installation Guidelines

- Vehicle installation: The antenna can be mounted at the center of a vehicle metal roof or trunk lid if the minimum safe distance is observed.
- Do not mount the mobile radio overhead or on a sidewall unless you take special precautions.

  If the mobile radio is not properly installed, road shock could bump the radio loose, and the falling radio could, in some circumstances, cause serious injury to the driver or a passenger. In case of vehicle accidents, even when properly installed, the radio could break loose and become a dangerous projectile.

# Radio Overview

## Front Panel View




① **Power Button/Selector Knob**

Press it to switch the radio on/off.

Volume Up/Down, Channel Up/Down, Zone Up/Down features can be programmed to this knob (Set by your dealer). Turn the knob clockwise to adjust upwards and counter-clockwise to adjust downwards.

② **LCD Display**

Please refer to “LCD Display” section.

③ **Up/Down Key**

Volume Up/Down, Channel Up/Down, Zone Up/Down features can be programmed to the keys (Set by your dealer).

④ **LED Indicator**

⑤ **Speaker**

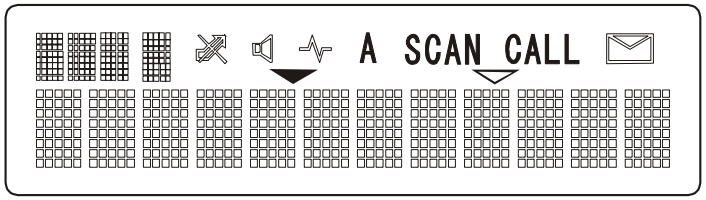
⑥ **Programmable Function Keys (PF1-PF6)**

Your dealer can program these keys as shortcuts to various radio features.

⑦ **Microphone Jack**

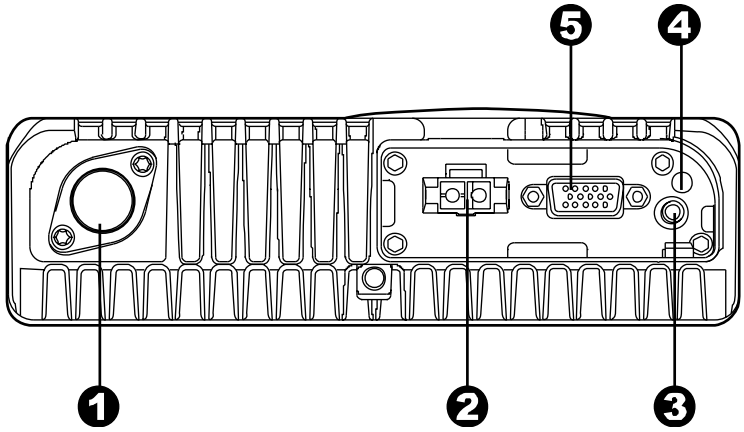
## Microphone

## LCD Display




| Indicator | Description |
|---|---|
| | 1. Display zone / channel number.<br>2. Display zone / channel label (set by your dealer, up to 12 alphanumeric characters).<br>3. Display channel Frequency<br>4. Display the preprogrammed function |
| | 1. Display zone / channel number.<br>2. Display transmit power level (H, M or L).<br>3. Display the preprogrammed function. |
| | Appears when the selected channel is busy. |
| | Appears when [MONI] key is pressed to disable CTCSS, CDCSS, DTMF or 2-Tone/5-Tone. |
| | Appears when [MONI] key is pressed to unmute the speaker. |
| A | 1. Indicate second development feature.<br>2. Appears when the auxiliary port is open. |
| SCAN | Appears while scanning. |
| CALL | Appears when transmitting selective call. |
| | Appears when a new message is received. |
| | Appears when the selected zone is in the scan list. |
| | Appears when the selected channel is in the scan list. |

## Rear Panel View




① **Antenna Connector**

Used to connect external antenna.

② **Power input Connector**

Adopt HYT-authorized DC power cable and 13.6 V input DC power.

③ **Speaker Jack**

Used to connect external speaker and only available for the plug of 3.5 mm.

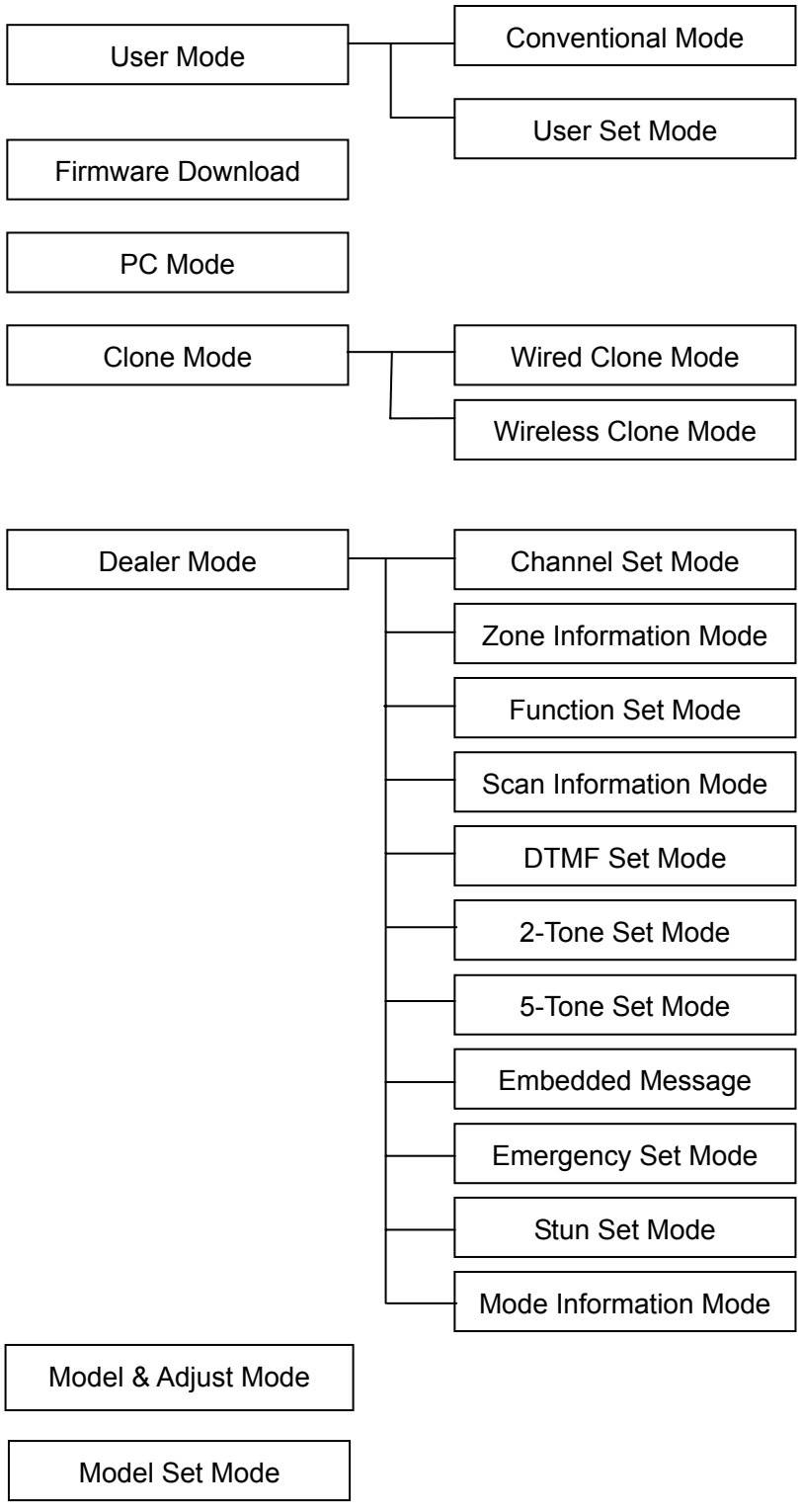
④ **GPS Antenna Jack**

⑤ **15 Pin Connector (for accessories)**

# Software Specification

## Radio Modes

### 1. Frame of Radio Modes



## 2. Keypad Entry for Mode Startup

| MODE | Main Menu | Display/Sub Menu | Operation | Remarks |
|---|---|---|---|---|
| USER MODE | Conventional Mode | ---------- | Turn on the power to enter Conventional Mode | |
| | User Set Mode | Function Set | While holding down [PF1] key, turn on the power | |
| | | PowerOn Text | | Refer to Appendix 1 “Character Input” |
| | | PWR Password | | Power on password set |
| | | Hook & Moni | | |
| | | Key Assign | | Programmable Function Key |
| DEALER MODE | Channel Set Mode | Channel Set | Turn on the power while holding down [PF6] key to enter Dealer Mode, select one of Menu items. | New zone & ch, edit ch |
| | Zone Information Mode | Zone Inform | | Only existing Zone can be edited |
| | Function Set | Function 1 | | |
| | | Function 2 | | |
| | | Tone Volume | | |
| | | Alert Tone | | |
| | | Aux Inform | | |
| | | Data Password | | |
| | Scan Information | Scan Set | | |
| | | Zone Scan List | | |
| | DTMF Set Mode | DTMF Encode | | |
| | | DTMF Decode | | |
| | | Auto Dial List | | |
| | | PTT ID | | |
| | 2 Tone Set Mode | 2Tone Encode | | |
| | | 2Tone Decode | | |
| | | 2Tone Option | | |
| | 5 Tone Set Mode | Parameter | | |
| | | Encode Teleg | | |
| | | Encode Frame | | |
| | | Encode Option | | |
| | | Decode Teleg | | |
| | | Decode Option | | |
| | Embedded Message | Embedded Msg1 | | 32 bytes |
| | | Embedded Msg2 | | 32 bytes |
| | | Embedded Msg3 | | 32 bytes |
| | | Embedded Msg4 | | 32 bytes |
| | | Msg Password | | Protect Msg |
| | Emergency set | Emergency Set | | |
| | Stun Set | Stun Inform | | |
| | | Stun Password | | Password Authentication |
| | Mode Information | Mode Select | | Password Authentication |
| | | Mode Password | | |

| | | | | |
|---|---|---|---|---|
| TEST & ADJUST MODE | Test Mode | ---------- | While holding down [PF2] key, turn on the power | |
| | ADJUST MODE | ---------- | | |
| | Model Set Mode | ---------- | | |
| Firmware Version Display Mode | | ---------- | While holding down [PF3] key, turn on the power | |
| Firmware Down Load Mode | | ---------- | While holding down [PF4] key, turn on the power | |
| Wire Clone Mode | | ---------- | While holding down [PF5] key, turn on the power | |
| PC Mode | | ---------- | Receive commands from PC | |

**Note:**

When power-on password is enabled, you can enter User Mode only after inputting correct password. And if data password is enabled, you can enter Dealer Mode only after inputting correct data password. You can input password through the keypad and press [#] to clear.

## 3. User Set Mode

(1) Turn the power on while holding down [PF1], the radio enters User Set Mode after inputting correct power-on password (if Power-On Password is set). The submenus are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 1 | Function Set |
| 2 | PowerOnText |
| 3 | PWR Password |
| 4 | UST Code |
| 5 | Hook & Moni |
| 6 | Key Assign |

(2) Press [PF6] to enter the selected submenu.

(3) Adjust settings through the Selector Knob.

(4) Press [PF6] to save the change and enter the next item.

(5) Press [Up]/ [Down] to select your desired menu item.

(6) Press [PF1] to return to User Set Mode.

■ **Function Set**

Select submenu “Function Set”, then press [PF6] to enter Function Set Mode.

| No. | Function Name | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | Home Channel | Home Off | Home Off | |
| | | Home 1 On | Home 1 On | |
| | | Home 2 On | Home 2 On | |
| | | Home Both On | Home Both On | |
| | | Zone Home Channel | Home Zone | |
| 2 | Home Channel 1 | Zone | 1 | Selector Knob: change a zone/ch |
| | | Channel | Home1 1 | [PF5]: toggle between zone and ch |
| 3 | Home Channel 2 | Zone | 1 | Selector Knob: change a zone/ch |
| | | Channel | Home2 1 | [PF5]: toggle between zone and ch |

■ **Power On Text**

Select submenu “Power OnText”, press [PF6], the power-on text is displayed. Press [PF1] to edit the power-on text.

| No. | Function Name | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | Power On Text | None | ---------- | Refer to Appendix 1 “Character Input”<br>Max.12 characters |
| | | Power on text | Welcome! | |

■ **Power On Password**

Select submenu “PWR Password”, press [PF6], the power-on password is displayed. Press [PF1] to edit the power-on password.

| No. | Function Name | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | Power On Password | None | ---------- | Refer to Appendix 1 “Character Input”<br>Max. 8 digits |
| | | Power on password | 88888888 | |

■ **UST Code**

Select submenu “UST Code”, press [PF6] to enter UST Code Mode.

| No. | Function Name | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | UST Code No. | 1-32 | UST 1 | |
| | | | UST 32 | |
| 2 | UST Code Name | ASCII CODE | Name | |
| | | | -------- | No input |
| 3 | RX Signalling | OFF | R<br>Off | [PF5]: OFF/CTCSS/CDCSS<br>[PF4]: standard/step mode<br>[PF3]: CDCSS/ reverse CDCSS |
| | | CTCSS<br>(EIA standard)<br>67.0-254.1Hz | R<br>CTCSS 67.0 | |
| | | | R<br>CTCSS 254.1 | |
| | | CTCSS<br>(0.1Hz step)<br>67.0-254.1Hz | R<br>CTCSS 67.0* | |
| | | | R<br>CTCSS 254.1* | |
| | | CDCSS (standard)<br>023-754 | R<br>CDCSS 023N | |
| | | | R<br>CDCSS 754N | |
| | | CDCSS (1 step)<br>000-777 | R<br>CDCSS 000N* | |
| | | | R<br>CDCSS 777N* | |
| | | CDCSS (standard)<br>023-754 reverse | R<br>CDCSS 023I | |
| | | | R<br>CDCSS 754I | |
| | | CDCSS (1step)<br>000-777 reverse | R<br>CDCSS 000I* | |
| | | | R<br>CDCSS 777I* | |
| 4 | TX Signalling | OFF | T<br>Off | |
| | | CTCSS<br>(EIA standard)<br>67.0-254.1Hz | T<br>CTCSS 67.0 | |
| | | | T<br>CTCSS 254.1 | |

| | | | | |
|---|---|---|---|---|
| 4 | TX Signalling | CTCSS (0.1Hz step) 67.0-254.1Hz | T CTCSS 67.0* | [PF5]: Off/CTCSS/CDCSS<br>[PF4]: standard/step mode<br>[PF3]: CDCSS/ reverse CDCSS |
| | | | T CTCSS 254.1* | |
| | | CDCSS (standard) 023-754 | T CDCSS 023N | |
| | | | T CDCSS 754N | |
| | | CDCSS (1step) 000-777 | T CDCSS 000N* | |
| | | | T CDCSS 777N* | |
| | | CDCSS (standard) 023-754 reverse | T CDCSS 023I | |
| | | | T CDCSS 754I | |
| | | CDCSS (1step) 000-777 reverse | T CDCSS 000I* | |
| | | | T CDCSS 777I* | |
| 5 | END | END | END | Display “END” indicating the end of menu options |

■ **Hook & Moni**

Select submenu “Hook & Moni”, press [PF6] to enter Hook & Moni Mode.

| NO. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Hook & Moni | Hook | HandMic Hook | Selected when hand microphone is used |
| | | Moni | TableMicMoni | Selected when desktop microphone is used |

■ **Key Assignment**

Select submenu “Key Assign”, press [PF6] to program the programmable function key PF1-PF6.

| No. | Key | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | [PF1] | Off | 1 PF1 Off | None |
| | | VOL Up | 2 PF1 VOL Up | Volume up |

| | | | | |
|---|---|---|---|---|
| 1 | [PF1] | VOL Down | 3<br>PF1 VOL Down | Volume down |
| | | CH Up | 4<br>PF1 CH Up | Channel up |
| | | CH Down | 5<br>PF1 CH Down | Channel down |
| | | Zone Up | 6<br>PF1 Zone Up | Zone up |
| | | Zone Down | 7<br>PF1 Zone Down | Zone down |
| | | MONI A | 8<br>PF1 MoniA | MONI A:<br>Monitor Unmute-Momentary |
| | | MONI B | 9<br>PF1 MoniB | MONI B:<br>Monitor Unmute-Toggle |
| | | MONI C [Default] | 10<br>PF1 MoniC | MONI C:<br>Carrier Squelch-Momentary |
| | | MONI D | 11<br>PF1 MoniD | MONI D:<br>Carrier Squelch-Toggle |
| | | Display Label | 12<br>PF1 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF1 DFreq | Display frequency |
| | | Display Mode | 14<br>PF1 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF1 UserTone | Tone 01-32 (CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF1 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF1 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PFI SelHDC | |
| | | Tx Power | 19<br>PF1 TxPower | Switch TX power |
| | | Scan | 20<br>PF1 Scan | Scan |
| | | Add/Del | 21<br>PF1 Add/Del | Add/Del in non-scan mode |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |
| | | Reverse | 22<br>PF1 Reverse | Reverse frequency |

| | | | | |
|---|---|---|---|---|
| 1 | [PF1] | Talk Around | 23<br>PF1 TA | Talkaround |
| | | SEL SQL | 24<br>PF1 SelSQL | Select SQL |
| | | Home CH | 25<br>PF1 HomeCH | Home channel |
| | | Public Address | 26<br>PF1 PA | Public address |
| | | Horn Alert | 27<br>PF1HornAlert | Horn alert |
| | | LCD BackLight | 28<br>PF1LCDLight | LCD backlight |
| | | Scrambler | 29<br>PF1 Scramble | Scrambler |
| | | Compander | 30<br>PF1 Compande | Compander |
| | | AUX A | 31<br>PF1 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF1 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF1 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF1Emergency | Emergency call |
| | | Message | 35<br>PF1 Message | Message |
| | | Encyrpt Board | 36<br>PF1 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF1 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF1 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF1 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 2 | [PF2] | Off | 1<br>PF2 Off | None |
| | | VOL Up | 2<br>PF2 VOL Up | Volume up |
| | | VOL Down | 3<br>PF2 VOL Down | Volume down |
| | | CH Up | 4<br>PF2 CH Up | Channel up |
| | | CH Down | 5<br>PF2 CH Down | Channel down |
| | | Zone Up | 6<br>PF2 Zone Up | Zone up |
| | | Zone Down | 7<br>PF2 Zone Down | Zone down |
| | | Moni A | 8<br>PF2 MoniA | MONI A |
| | | Moni B | 9<br>PF2 MoniB | MONI B |
| | | Moni C | 10<br>PF2 MoniC | MONI C |
| | | Moni D | 11<br>PF2 MoniD | MONI D |
| | | DisplayLabel | 12<br>PF2 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF2 DFreq | Display frequency |
| | | DisplayMode [Default] | 14<br>PF2 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF2 UserTone | Tone 01-32(CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF2 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF2 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PF2 SelHDC | |
| | | Tx Power | 19<br>PF2 TxPower | Switch TX power |
| | | Scan | 20<br>PF2 Scan | Scan |
| | | Add/Del | 21<br>PF2 Add/Del | Add/Del as not in scan status |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |

| | | | | |
|---|---|---|---|---|
| 2 | [PF2] | Reverse | 22<br>PF2 Reverse | Reverse frequency |
| | | Talk Around | 23<br>PF2 TA | Talkaround |
| | | Sel SQL | 24<br>PF2 SelSQL | Select SQL |
| | | Home CH | 25<br>PF2 HomeCH | Home channel |
| | | Public Address | 26<br>PF2 PA | Public address |
| | | Horn Alert | 27<br>PF2Horn Alert | Horn alert |
| | | LCD BackLight | 28<br>PF2 LCD Light | LCD backlight |
| | | Scramble | 29<br>PF2 Scramble | Scrambler |
| | | Compander | 30<br>PF2 Compande | Compander |
| | | AUX A | 31<br>PF2 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF2 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF2 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF2Emergency | Emergency call |
| | | Message | 35<br>PF2 Message | Message |
| | | Encyrpt Board | 36<br>PF2 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF2 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF2 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF2 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 3 | [PF3] | Off | 1<br>PF3 Off | None |
| | | VOL Up | 2<br>PF3 VOL Up | Volume up |
| | | VOL Down | 3<br>PF3 VOL Down | Volume down |
| | | CH Up | 4<br>PF3 CH Up | Channel up |
| | | CH Down | 5<br>PF3 CH Down | Channel down |
| | | Zone Up | 6<br>PF3 Zone Up | Zone up |
| | | Zone Down | 7<br>PF3 Zone Down | Zone down |
| | | Moni A | 8<br>PF3 MoniA | MONI A:<br>Monitor Unmute-Momentary |
| | | Moni B | 9<br>PF3 MoniB | MONI B:<br>Monitor Unmute-Toggle |
| | | Moni C | 10<br>PF3 MoniC | MONI C:<br>Carrier Squelch-Momentary |
| | | Moni D | 11<br>PF3 MoniD | MONI D:<br>Carrier Squelch-Toggle |
| | | Display Label | 12<br>PF3 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF3 DFreq | Display frequency |
| | | Display Mode | 14<br>PF3 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF3 UserTone | Tone 01-32(CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF3 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF3 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PF3 SelHDC | |
| | | Tx Power [Default] | 19<br>PF3 TxPower | Switch TX power |
| | | Scan | 20<br>PF3 Scan | Scan |

| | | | | |
|---|---|---|---|---|
| 3 | [PF3] | Add/Del | 21<br>PF3 Add/Del | Add/Del as not in scan status |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |
| | | Reverse | 22<br>PF3 Reverse | Reverse frequency |
| | | Talk Around | 23<br>PF3 TA | Talkaround |
| | | Sel SQL | 24<br>PF3 SelSQL | Select SQL |
| | | Home CH | 25<br>PF3 HomeCH | Home channel |
| | | Public Address | 26<br>PF3 PA | Public address |
| | | Horn Alert | 27<br>PF3Horn Alert | Horn alert |
| | | LCD BackLight | 28<br>PF3 LCD Light | LCD backlight |
| | | Scramble | 29<br>PF3 Scramble | Scrambler |
| | | Compander | 30<br>PF3 Compande | Compander |
| | | AUX A | 31<br>PF3 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF3 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF3 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF3Emergency | Emergency call |
| | | Message | 35<br>PF3 Message | Message |
| | | Encyrpt Board | 36<br>PF3 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF3 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF3 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF3 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 4 | [PF4] | Off | 1<br>PF4 Off | None |
| | | VOL Up | 2<br>PF4 VOL Up | Volume up |
| | | VOL Down | 3<br>PF4 VOL Down | Volume down |
| | | CH Up | 4<br>PF4 CH Up | Channel up |
| | | CH Down | 5<br>PF4 CH Down | Channel down |
| | | Zone Up | 6<br>PF4 Zone Up | Zone up |
| | | Zone Down | 7<br>PF4 Zone Down | Zone down |
| | | Moni A | 8<br>PF4 MoniA | MONI A:<br>Monitor Unmute-Momentary |
| | | Moni B | 9<br>PF4 MoniB | MONI B:<br>Monitor Unmute-Toggle |
| | | Moni C | 10<br>PF4 MoniC | MONI C:<br>Carrier Squelch-Momentary |
| | | Moni D | 11<br>PF4 MoniD | MONI D:<br>Carrier Squelch-Toggle |
| | | DispayLabel | 12<br>PF4 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF4 DFreq | Display frequency |
| | | Display Mode | 14<br>PF4 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF4 UserTone | Tone 01-32(CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF4 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF4 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PF4 SelHDC | |
| | | Tx Power | 19<br>PF4 TxPower | Switch TX power |
| | | Scan [Default] | 20<br>PF4 Scan | Scan |

| | | | | |
|---|---|---|---|---|
| 4 | [PF4] | Add/Del | 21<br>PF4 Add/Del | Add/Del as not in scan status |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |
| | | Reverse | 22<br>PF4 Reverse | Reverse frequency |
| | | Talk Around | 23<br>PF4 TA | Talkaround |
| | | Sel SQL | 24<br>PF4 SelSQL | Select SQL |
| | | Home CH | 25<br>PF4 HomeCH | Home channel |
| | | Public Address | 26<br>PF4 PA | Public address |
| | | Horn Alert | 27<br>PF4Horn Alert | Horn alert |
| | | LCD BackLight | 28<br>PF4 LCD Light | LCD backlight |
| | | Scramble | 29<br>PF4 Scramble | Scrambler |
| | | Compander | 30<br>PF4 Compande | Compander |
| | | AUX A | 31<br>PF4 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF4 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF4 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF4Emergency | Emergency call |
| | | Message | 35<br>PF4 Message | Message |
| | | Encyrpt Board | 36<br>PF4 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF4 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF4 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF4 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 5 | [PF5] | Off | 1<br>PF5 Off | None |
| | | VOL Up | 2<br>PF5 VOL Up | Volume up |
| | | VOL Down | 3<br>PF5 VOL Down | Volume down |
| | | CH Up | 4<br>PF5 CH Up | Channel up |
| | | CH Down | 5<br>PF5 CH Down | Channel down |
| | | Zone Up | 6<br>PF5 Zone Up | Zone up |
| | | Zone Down [Default] | 7<br>PF5 Zone Down | Zone down |
| | | Moni A | 8<br>PF5 MoniA | MONI A:<br>Monitor Unmute-Momentary |
| | | Moni B | 9<br>PF5 MoniB | MONI B:<br>Monitor Unmute-Toggle |
| | | Moni C | 10<br>PF5 MoniC | MONI C:<br>Carrier Squelch-Momentary |
| | | Moni D | 11<br>PF5 MoniD | MONI D:<br>Carrier Squelch-Toggle |
| | | Display Label | 12<br>PF5 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF5 DFreq | Display frequency |
| | | Display Mode | 14<br>PF5 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF5 UserTone | Tone 01-32(CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF5 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF5 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PF5 SelHDC | |
| | | Tx Power | 19<br>PF5 TxPower | Switch TX power |
| | | Scan | 20<br>PF5 Scan | Scan |

| | | | | |
|---|---|---|---|---|
| 5 | [PF5] | Add/Del | 21<br>PF5 Add/Del | Add/Del as not in scan status |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |
| | | Reverse | 22<br>PF5 Reverse | Reverse frequency |
| | | Talk Around | 23<br>PF5 TA | Talkaround |
| | | Sel SQL | 24<br>PF5 SelSQL | Select SQL |
| | | Home CH | 25<br>PF5 HomeCH | Home channel |
| | | Public Address | 26<br>PF5 PA | Public address |
| | | Horn Alert | 27<br>PF5Horn Alert | Horn alert |
| | | LCD BackLight | 28<br>PF5 LCD Light | LCD backlight |
| | | Scramble | 29<br>PF5 Scramble | Scrambler |
| | | Compander | 30<br>PF5 Compande | Compander |
| | | AUX A | 31<br>PF5 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF5 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF5 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF5Emergency | Emergency call |
| | | Message | 35<br>PF5 Message | Message |
| | | Encyrpt Board | 36<br>PF5 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF5 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF5 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF5 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 6 | [PF6] | Off | 1<br>PF6 Off | None |
| | | VOL Up | 2<br>PF6 VOL Up | Volume up |
| | | VOL Down | 3<br>PF6 VOL Down | Volume down |
| | | CH Up | 4<br>PF6 CH Up | Channel up |
| | | CH Down | 5<br>PF6 CH Down | Channel down |
| | | Zone Up [Default] | 6<br>PF6 Zone Up | Zone up |
| | | Zone Down | 7<br>PF6 Zone Down | Zone down |
| | | Moni A | 8<br>PF6 MoniA | MONI A:<br>Monitor Unmute-Momentary |
| | | Moni B | 9<br>PF6 MoniB | MONI B:<br>Monitor Unmute-Toggle |
| | | Moni C | 10<br>PF6 MoniC | MONI C:<br>Carrier Squelch-Momentary |
| | | Moni D | 11<br>PF6 MoniD | MONI D:<br>Carrier Squelch-Toggle |
| | | Display Label | 12<br>PF6 DLabel | Display channel label |
| | | Display Frequency | 13<br>PF6 DFreq | Display frequency |
| | | Display Mode | 14<br>PF6 DMode | Ch No./ch label/zone No./zone label/RX Freq. |
| | | User Selectable Tone | 15<br>PF6 UserTone | Tone 01-32 (CTCSS/CDCSS) |
| | | Sel 2Tone | 16<br>PF6 Sel2Tone | Select 2-Tone encode |
| | | Sel 5Tone | 17<br>PF6 Sel5Tone | Select 5-Tone encode |
| | | Sel HDC | 18<br>PF6 SelHDC | |
| | | Tx Power | 19<br>PF6 TxPower | Switch TX power |
| | | Scan | 20<br>PF6 Scan | Scan |

| | | | | |
|---|---|---|---|---|
| 6 | [PF6] | Add/Del | 21<br>PF6 Add/Del | Add/Del as not in scan status |
| | | | | Nuisance channel temp.Del |
| | | | | Priority ch temp. del |
| | | Reverse | 22<br>PF6 Reverse | Reverse frequency |
| | | Talk Around | 23<br>PF6 TA | Talkaround |
| | | Sel SQL | 24<br>PF6 SelSQL | Select SQL |
| | | Home CH | 25<br>PF6 HomeCH | Home channel |
| | | Public Address | 26<br>PF6 PA | Public address |
| | | Horn Alert | 27<br>PF6Horn Alert | Horn alert |
| | | LCD BackLight | 28<br>PF6 LCD Light | LCD backlight |
| | | Scramble | 29<br>PF6 Scramble | Scrambler |
| | | Compander | 30<br>PF6 Compande | Compander |
| | | AUX A | 31<br>PF6 AUX A | AUXA port output control |
| | | AUX B | 32<br>PF6 AUX B | AUXB port output control |
| | | Send GPS | 33<br>PF6 Send GPS | Send GPS |
| | | Emergency Call | 34<br>PF6Emergency | Emergency call |
| | | Message | 35<br>PF6 Message | Message |
| | | Encyrpt Board | 36<br>PF6 Encrypt | To enable Encrypt function |
| | | Auto Contact | 37<br>PF6 Auto Contact | To enable/disable Auto Contact |
| | | GPS Console | 38<br>PF6 GPS | To enter/exit GPS mode |
| | | Transparent Transmit Mode | 39<br>PF6 Data Mode | To enable/disable Transparent Transmit function |

| | | | | |
|---|---|---|---|---|
| 7 | [SELECTOR KNOB] | Volume Knob [Default] | Volume Knob | Volume knob |
| | | Channel Knob | Channel Knob | Channel selector knob |
| | | Zone Knob | Zone Knob | Zone selector knob |
| 8 | [Up/Down] | Volume Up/Down | Volume UpDn | Volume knob |
| | | Channel Up/Down [Default] | Channel UpDn | Channel selector knob |
| | | Zone Up/Down | Zone UpDn | Zone selector knob |
| 9 | END | END | END | Display “END” indicating the end of menu option |

**Note:** In User Set Mode, turn the power off and back on to enter the Conventional Mode.

## 4. Firmware Download Mode

The built-in FLASH ROM enables user to add new functions simply by upgrading.

(1) Turn on the power while holding down [PF4] simultaneously to enter Firmware Download Mode, “PC Program” appears on the LCD.

(2) Run the programming software.

(3) Connect the radio with a PC by programming cable.

(4) Select the corresponding COM port, then click “Download”.

(5) When data is successfully written into the radio, click “OK” to exit.

(6) Repeat step 1-5 to program another radio.

**Note:** The radio can’t enter the Firmware Download Mode if it is prohibited by your dealer.It can be set ON only after being programmed through the programming software or by your dealer.

## 5. Firmware Version Display Mode

Turn the power on while holding down [PF3] to enter Firmware Version Display Mode.

Firmware version and Firmware checksum will be displayed on the LCD.

Release [PF3] to enter User Mode.

## 6. PC Mode

Connect the radio with a PC by programming cable. If data is written to the radio from PC, it can be programmed into the FLASH. Data programming is accessible by programming software.

(1) When data is written to the radio from PC, “PROGRAMMING” appears on the LCD. LED glows green when data is written to the radio and red when data is read from the radio. Radio will restart automatically when programming is completed.

(2) The following parameters can be set through the programming software.

- Frequency stability
- High power
- Middle power
- Low power
- Maximum frequency deviation
- CDCSS balance
- CTCSS deviation
- CDCSS deviation
- DTMF deviation
- MSK deviation
- Single Tone deviation
- RX sensitivity
- Squelch Level 9
- Squelch Level 3
- RSSI
- DI deviation

## 7. Clone Mode

Data can be transferred from radio to radio either by wired cloning or wireless cloning.

- **Wired Clone Mode**

(1) Turn on the source radio while holding down [PF5] simultaneously, the radio enters Clone Mode with “CLONE” on the LCD, or enters User Mode if Clone Mode is set OFF by your dealer.

(2) Press [PF2] to toggle between Dealer Clone and Factory Clone Mode. “Dealer Clone” or “Factory Clone” appears on the display when the corresponding mode is selected. The radio returns to original display mode in 5 seconds.

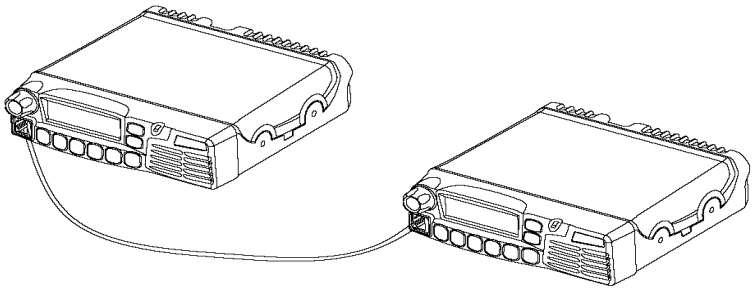
Unlike Factory Clone Mode, adjustment settings and embedded messages are not covered in Dealer Clone Mode.

Dealer Clone Mode is the default mode.

(3) Connect the two radios by clone cable, then turn on the target radio.

(4) Press [PF6] to start cloning, the LED of source radio glows red and that of target radio glows green during cloning. “PROGRAMMING” is also displayed on the target radio. “END” appears on the source radio when cloning is completed and the target radio reset when all data is received.

(5) Press [PF6] to return to Clone Mode. “CLONE” appears on the source radio. Repeat the above steps to continue wired cloning.



**Note**: Only the same models can be cloned together.

■ **Wireless Clone Mode**

(1) Turn on the source radio while holding down [PF5] simultaneously, the radio enters Clone Mode with “CLONE” on the LCD, or enters User Mode if Clone Mode is set OFF by your dealer.

(2) Press [PF1], the radio enters Wireless Clone Mode with “WIRELESS” on the LCD. The initial frequency that matches the destination is displayed in 2 seconds. Turn the Selector Knob to choose desired frequency. Press [PF1] again to return to Clone Mode.

(3) Press [PF2] to toggle between Dealer Clone and Factory Clone Mode. “Dealer Clone” or “Factory Clone” appears on the display when the corresponding mode is selected. The radio returns to original display mode in 5 seconds.

Unlike Factory Clone Mode, adjustment settings and embedded messages are not covered in Dealer Clone Mode.

Dealer Clone Mode is the default mode.

(4) Repeat step1-2 to operate the target radio, the frequency is set the same as that of source radio.

(5) Press [PF6] to start wireless cloning. The LED of source radio glows red and that of target radio glows green during cloning. “CLONE 00%” is displayed on both source and target radios. “BUSY” mark also appears on the target radio. The leftmost 2 digits (00) on the LCD show the data transfer rate and count upwards in increments of 1 as data transmission/reception proceeds.

(6) When data transmission is completed, “END” appears on the source radio and red LED goes out. Press [PF1], the source radio displays the frequency, repeat the above steps to continue wireless cloning. The target radio reset when all data is received.

**Note:** Clone Mode can be enabled/disabled by your dealer. Wired cloning is accessible only when Clone Mode is enabled. Refer to “Clone Mode” in “Mode Information” of “Dealer Mode”.

## 8. Dealer Mode

(1) Turn the power on while holding down [PF6], the radio enters Dealer Mode after inputting correct data password (if Data Password is set). The first mode option that is activated is displayed.

When all mode options are prohibited, the radio enters Mode Information Mode after a correct mode-info password (if mode-info Password is set) is entered.

Turn the Selector Knob to select one of the following mode options:

| No. | Dealer Mode Option | LCD Display |
|---|---|---|
| 1 | Channel Set Mode | Channel Set |
| 2 | Zone Information Mode | Zone Inform |
| 3 | Function Set Mode | Function Set |
| 4 | Scan Information Mode | Scan Inform |
| 5 | DTMF Set Mode | DTMF Set |
| 6 | 2-Tone Set Mode | 2-Tone Set |
| 7 | 5-Tone Set Mode | 5-Tone Set |
| 8 | Embedded Message | EmbeddedMsg |
| 9 | Emergency Set Mode | EmergencySet |
| 10 | Stun Set Mode | Stun Inform |
| 11 | Mode Information | Mode Inform |

(2) Press [PF6] to enter the selected dealer mode option, and then operate as follows:

- Turn the Selector Knob to adjust the setting.
- Press [PF6] to save the selected settings and goes to the next mode option.
- Press [Up]/[Down] to select upwards/downwards. The current setting displayed on the LCD will not be saved.
- Press [PF1] to return to the first mode option or Dealer Mode.

Dealer Mode 1: Channel Set

Select menu “Channel Set”, then press [PF6] to enter Channel Set Mode.

| No. | Function Name | Settings | Display | Remarks |
|---|---|---|---|---|
| 1 | Zone Channel | Channel 1-512 Step 1 | 1 CH 1 | Selector Knob: change a channel or zone (default: ch) [PF5]: toggle between channel and zone |
| | | | 1 CH 512 | |
| | | Zone 1-256 Step 1 | 1 CH 1 | |
| | | | 256 | |
| | | | CH 1 | |
| 2 | RX Frequency | 5.0K/6.25K/1M 100.0000-550.0000MHz | 250 0 R 100.00000 | Selector Knob: change at step frequency [PF4]: 5.0K/6.25K/1M step Step 2.5K: only for TM800 VHF(<200MHz) |
| | | | 500 0 R 400.00000 | |
| | | | 625 0 R 400.00000 1M R 550.00000 | |
| | | Blank | ---------- | [PF5]: On/Blank |
| 3 | RX Signalling | OFF | R Off | [PF5]: Off/CTCSS/CDCSS [PF4]: standard/step mode [PF3]: CDCSS /reverse CDCSS |
| | | CTCSS (EIA standard) 67.0-254.1Hz | R CTCSS 67.0 | |
| | | | R CTCSS 254.1 | |
| | | CTCSS (0.1Hz step) 67.0-254.1Hz | R CTCSS 67.0* | |
| | | | R CTCSS 254.1* | |
| | | CDCSS (standard) 023-754 | R CDCSS 023N | |
| | | | R CDCSS 754N | |
| | | CDCSS (1 step) 000-777 | R CDCSS 000N* | |
| | | | R CDCSS 777N* | |

| | | | | |
|---|---|---|---|---|
| 3 | RX Signalling | CDCSS (standard)<br>023-754 reverse | R<br>CDCSS 023I | |
| | | | R<br>CDCSS 754I | |
| | | CDCSS (1 step)<br>000-777 reverse | R<br>CDCSS 000I* | |
| | | | R<br>CDCSS 777I* | |
| 4 | TX Frequency | 5.0K/6.25K/1M<br>100.0000-550.0000MHz | 250 0<br>T 100.00000 | Selector Knob: change at step frequency<br>[PF4]: 5.0K/6.25K/1M step<br>Step 2.5K: only for TM800 VHF(<200MHz) |
| | | | 500 0<br>T 400.00000 | |
| | | | 625 0<br>T 400.00000 | |
| | | | 1M<br>T 550.00000 | |
| | | Blank | ---------- | [PF5]: On/Blank |
| 5 | TX Signalling | OFF | T<br>Off | [PF5]: Off/CTCSS/CDCSS<br>[PF4]: standard/step mode<br>[PF3]: CDCSS / reverse CDCSS |
| | | CTCSS (EIA standard)<br>67.0-254.1Hz | T<br>CTCSS 67.0 | |
| | | | T<br>CTCSS 254.1 | |
| | | CTCSS (0.1Hz step)<br>67.0-254.1Hz | T<br>CTCSS 67.0* | |
| | | | T<br>CTCSS 254.1* | |
| | | CDCSS (standard)<br>023-754 | T<br>CDCSS 023N | |
| | | | T<br>CDCSS 754N | |
| | | CDCSS (1 step)<br>000-777 | T<br>CDCSS 000N* | |
| | | | T<br>CDCSS 777N* | |
| | | CDCSS (standard)<br>023-754 reverse | T<br>CDCSS 023I | |
| | | | T<br>CDCSS 754I | |
| | | CDCSS (1 step)<br>000-777 reverse | T<br>CDCSS 000I* | |
| | | | T<br>CDCSS 777I* | |

| | | | | |
|---|---|---|---|---|
| 6 | Optional Signalling | Off | Option Off | Default |
| | | DTMF | DTMF | |
| | | 2-Tone | 2 Tone | |
| | | 5-Tone | 5 Tone | |
| | | HDC2400™ | HDC2400 | |
| | | HDC1200 | HDC1200 | |
| 7 | BCL (Busy Channel Lockout) | Off | BCL Off | Default |
| | | CTCSS/CDCSS | BCL CTCSS/CDCSS | |
| | | Opt Signalling | BCL Opt Signal | |
| | | Carrier Only | BCL Carrier Only | |
| 8 | Clock Shift | Off | Shift Off | Default |
| | | On | Shift On | |
| 9 | TX Power | High | TXPower HI | |
| | | Middle | TXPower MI | |
| | | Low | TXPower LO | Default |
| 10 | Wideband / Narrowband | Wide | Wide Band | Default |
| | | Narrow | Narrow Band | |
| 11 | Scan ADD/DEL | Delete | Scan Del | |
| | | Add | Scan Add | Default |
| 12 | Compander | Off | Compand Off | |
| | | On | Compand On | |
| 13 | Scrambler | Off | Scramble Off | Default |
| | | On | Scramble On | |
| 14 | PTT ID | Off | PTTID Off | |
| | | PTT ID 1 | PTT ID 1 | |
| | | PTT ID 2 | PTT ID 2 | |
| | | PTT ID 3 | PTT ID 3 | |
| | | PTT ID 4 | PTT ID 4 | |
| | | 5-Tone | 5Tone | |
| 15 | Channel Name | PHILLPOTTS | Name PHILLPOTTS | 12 characters maximum<br>Current input position is indicated by cursor<br>Refer to Appendix 1 “Character Input” |
| | | ---------- | Name ---------- | |

| | | | | |
|---|---|---|---|---|
| 16 | 2-Tone Decode | None | 2T<br>Decode None | Appears when 2-Tone is selected.<br>Default: None |
| | | 2-ToneDecode 1-8 | 2T<br>Decode 1 | |
| | | | 2T<br>Decode 8 | |
| | 5-Tone Rx Address | 5-Tone Rx Address | 5TRx<br>Address 12345 | Appears when 5-Tone is selected.<br>User-defined |
| | HDC2400™ | None | None | Default: None<br>Appears when HDC2400™ is selected |
| | | HDC2400™ Call 1-8 | List 1<br>List 8 | |
| 17 | 5-Tone Tx Address | 5-Tone Tx Address | 5TTx<br>Address23456 | Appears when 5-Tone is selected.<br>User-defined |
| | HDC2400™ Call 2 | None | None | Default: None<br>Appears when HDC2400™ is selected |
| | | HDC2400™ Call 1-8 | List 1<br>List 8 | |
| 18 | 5-Tone Parameter | 5-Tone Parameter 1-16 | 5T<br>Parameter 1 | Appears when 5-Tone is selected.<br>Default: Parameter 1 |
| | | | 5T<br>Parameter 16 | |
| 19 | END | END | END | |

Dealer Mode 2: Zone Information

Select menu “Zone Inform”, then press [PF6] to enter Zone Set Mode.

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Zone Select | 100 | Zone 100 | Selector Knob: select a zone<br>Only existing zone can be set. |
| 2 | Zone Name | | Name | |
| | | | PHILLPOTTS | 12 characters maximum |
| | | | Name | Current input position is indicated by cursor. |
| | | | ---------- | Refer to Appendix “Character Input”. |

| | | | | |
|---|---|---|---|---|
| 3 | Data Transmission (Zone-CH) | Channel 1-512 Step 1 | 1<br>CH 1 | Selector Knob: change a channel or zone (default ch) |
| | | | 1<br>CH 512 | |
| | | Zone 1-256 Step 1 | 1<br>CH 1 | [PF5]: toggle between channel and zone |
| | | | 256<br>CH 1 | |
| 4 | Multi-Scan Scan Add/Del | ADD | MultiLst Add | Add/del to multi-scan list<br>Only for multi-scan |
| | | DEL | MultiLst Del | |
| 5 | TOT | Off 15~1200s | TOT Off | |
| | | | TOT 15 | 15s/1Step |
| | | | TOT 180 | Default |
| | | | TOT 1200 | |
| 6 | TOT PreAlert Time | Off 1-10s | TOT PreAlert Off | Default |
| | | | TOT PreAlert 1 | 1s/1Step |
| | | | TOT PreAlert 10 | |
| 7 | TOT Rekey Time | Off 1-60s | TOT Rekey Off | Default |
| | | | TOT ReKey 1 | 1s/1Step |
| | | | TOT ReKey 60 | |
| 8 | TOT Reset Time | Off 1-15s | TOT Reset Off | Default |
| | | | TOT Reset 1 | 1s/1Step |
| | | | TOT Reset 15 | |
| 9 | Signalling Control | Or | Signal OR | Default |
| | | And | Signal AND | |
| 10 | ClearToTranspond | On | CLR Transpond On | |
| | | | | Default |
| | | Off | CLR Transpond Off | |
| | | | | |

| | | | | |
|---|---|---|---|---|
| 11 | Zone Home Channel | 1-512 | Home Channel 1 | Default |
| | | | Home Channel 512 | |
| 12 | END | END | END | Display “END” indicating the end of menu option |

Dealer Mode 3: Function Set

Select menu “Function Set”, then press [PF6] to enter Function Set Mode. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 3.1 | Function 1 |
| 3.2 | Function 2 |
| 3.3 | Tone Volume |
| 3.4 | Alert Tone |
| 3.5 | Aux Inform |
| 3.6 | DataPassword |

**1. Select submenu “Function 1”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Squelch Level | 0-9 | SQL 0 | Step: 1 |
| | | | SQL 5 | Default |
| | | | SQL 9 | |
| 2 | Off Hook Decode | Not decode | Off HookNoDecode | Not decode ctcss/cdtcc during off hook status, it works as carrier squelch |
| | | Decode | Off Hook Decode | Decode ctcss/cdtcc during off hook status |
| 3 | Off Hook Horn Alert | Off | Off Hook No HA | Horn alert is not available when off hook |
| | | On | Off Hook HA | Horn alert is available when off hook |
| 4 | PTT Release Tone | Off | PTT RL Tone Off | |
| | | On | PTT RL Tone On | |

| | | | | |
|---|---|---|---|---|
| 5 | Busy LED | Off | BusyLED Off | |
| | | On | BusyLED On | |
| 6 | UST BackUp | Off | USTBackUpOff | UST RX/TX signalling setting |
| | | On | USTBackUp On | |
| 7 | Scrambler BackUp | Off | ScramBak Off | Scrambler setting Backup to current channel |
| | | On | ScramBak On | |
| 8 | Compand BackUp | Off | CompdBak Off | Compand setting backup to current channel |
| | | On | CompdBak On | |
| 9 | Horn Alert BackUp | Off | HABackUp Off | The Horn Alert on status is memorized.<br>The Horn Alert on status is cleared when the radio is turned off. |
| | | On | HABackUp On | |
| 10 | BCL Override | Off | BCL<br>Override Off | To transmit in Busy Channel Lockout mode, press PTT again within approx. 500ms after PTT is released. |
| | | On | BCL<br>Override On | |
| 11 | Roll Over | Off | RollOver Off | Display rolls over as over 12 characters |
| | | On | RollOver On | |
| 12 | END | END | END | Display “END” indicating the end of menu options |

**2. Select submenu “Function 2”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Sub LCD Display | Off<br>CH Number<br>Zone Number | SUB<br>LCD ZoneNum | |
| | | | SUB<br>LCD Off | |
| | | | SUB<br>LCD ChNum | |
| 2 | Main LCD Display | CH Number | Main<br>LCD ChNum | |
| | | CH Name | Main<br>Ch Name | |
| | | Zone Number | Main<br>Zone Number | |
| | | Zone Name | Main<br>Zone Name | |
| | | CH Frequency | Main<br>Frequency | RX frequency is displayed in receive mode and TX frequency in transmit mode |

| | | | | |
|---|---|---|---|---|
| 3 | Icon Display | None | Icon<br>None | No Display |
| | | Tx Power | Icon<br>Tx Power | Display Tx power: H, M, L |
| | | Aux | Icon<br>AuxFunction | Aux function: D(data),G(GPS)<br>A(Aux Out A=High),<br>B(Aux Out B=High) |
| 4 | Horn Alert Logic | Until Reset | HA<br>Until Reset | Continuous low (logic level) output until Option Signalling is reset. |
| | | Pulse | HA<br>Pulse | The Horn Alert port is activated 1s, inactivated 500ms, activated 1s in sequence. |
| | | 1-30s<br>step 1s | HA<br>1 second | Continuous low (logic level) output until the selected time has expired. |
| | | | HA<br>30 seconds | |
| 5 | Ignition Sense | Off | Ignition Off | |
| | | On | Ignition On | |
| 6 | Ignition Sense<br>Power off Timer | 00-59Min<br>Step 1Min | IGN<br>00Hour 00Min | Adjust timer:<br>0Hour, 0Min-24Hour, 00Min<br>PF5: 1MIN/1HOUR step change |
| | | | IGN<br>00Hour 59Min | |
| | | 00-24Hour<br>Step 1Hour | IGN<br>00Hour 00Min | |
| | | | IGN<br>24Hour 00Min | |
| 7 | END | END | END | Display “END” indicating the end of menu option |

**3. Select submenu “Tone Volume”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Power-Up Tone Volume | Off | Tone<br>PowerUp Off | |
| | | User Current | Tone<br>PowerUp User | Use Current volume setting |
| | | 1-127 | Tone<br>PowerUp 1 | Default: 1 |

| | | | | |
|---|---|---|---|---|
| 2 | Control Tone Volume | Off | Tone Control Off | |
| | | User Current | Tone Control User | Use Current volume setting |
| | | 1-127 | Tone Control 2 | Default: 2 |
| 3 | Alert Tone Volume | Off | Tone AlertOff | |
| | | User Current | Tone Alert User | Use Current volume setting |
| | | 1-127 | Tone Alert 3 | Default: 3 |
| 4 | Warning Tone Volume | Off | Tone Warning Off | |
| | | User Current | Tone Warning User | Use Current volume setting |
| | | 1-127 | Tone Warning 4 | Default: 4 |
| 5 | Volume Min | Off | VolumeMinOff | |
| | | 1-64 Step 1 | VolumeMin 1 | |
| | | | VolumeMin 64 | |
| 6 | Volume Max | 64-127 Step 1 | VolumeMax 64 | |
| | | | VolumeMax 127 | |
| 7 | END | END | END | Display “END” indicating the end of menu option |

**4. Select submenu “Alert Tone”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Alert Tone No. | Alert Tone 1-8 | Alert Tone 1 | |
| | | | Alert Tone 8 | |
| 2 | Cycle | Continuous | Continuous | |
| | | Cycle 0-255S Step 1 | Cycle 0S | |
| | | | Cycle 255S | |
| 3 | Interval | 0-255ms | Interv 1ms | |
| | | Step 1ms | Interv 255ms | |

| | | | | |
|---|---|---|---|---|
| 4 | Tone Frequency<br>No. 1-14<br>Step 1 | Off | Freq<br>No.1 ---- | |
| | | 400-2550Hz<br>Step 10Hz | Freq<br>No.1 400Hz | |
| | | | Freq<br>No.1 2550Hz | |
| | | Off | Freq<br>No.14 ---- | |
| | | 400-2550Hz<br>Step 10Hz | Freq<br>No.14 400Hz | |
| | | | Freq<br>No.14 2550Hz | |
| 5 | Tone Duration<br>No. 1-14<br>Step 1 | 0-2550ms<br>Step 10ms | Dura<br>No.1 0ms | |
| | | | Dura<br>No.1 2550ms | |
| | | 0-2550ms<br>Step 10ms | Dura<br>No.14 0ms | |
| | | | Dura<br>No.14 2550ms | |
| 6 | END | END | END | Display “END” indicating the end of menu option |

**5. Select submenu “AUX Inform”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | UART0 | None | UART<br>0 None | |
| | | Data | UART<br>0 Data | |
| 2 | UART1 | None<br>Data | UART<br>1 None | |
| | | | UART<br>1 Data | |

| | | | | |
|---|---|---|---|---|
| 2 | UART1 | GPS<br>SmarTrunk | UART<br>1 GPS | |
| | | | UART<br>1 SmarTrunk | |
| 3 | AUX1 | None | AUX 1<br>None | |
| | | External PTT | AUX 1<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 1<br>Speaker Mute | Input |
| | | External Monitor | AUX 1<br>ExternalMoni | Input |
| | | Up Key | AUX 1<br>Up Key | Input |
| | | Down Key | AUX 1<br>Down Key | Input |
| | | External Hook | AUX 1<br>ExternalHook | Input |
| | | Emergency | AUX 1<br>Emergency | Input |
| | | Mic Mute | AUX 1<br>Mic Mute | Input |
| | | RxCarrier | AUX 1<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 1<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 1<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 1<br>AUXB Out | Output controlled by [AUX B] key |
| 4 | AUX2 | None | AUX 2<br>None | |
| | | External PTT | AUX 2<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 2<br>Speaker Mute | Input |

| | | | | |
|---|---|---|---|---|
| 4 | AUX2 | External Monitor | AUX 2<br>ExternalMoni | Input |
| | | Up Key | AUX 2<br>Up Key | Input |
| | | Down Key | AUX 2<br>Down Key | Input |
| | | External Hook | AUX 2<br>ExternalHook | Input |
| | | Emergency | AUX 2<br>Emergency | Input |
| | | Mic Mute | AUX 2<br>Mic Mute | Input |
| | | RxCarrier | AUX 2<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 2<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 2<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 2<br>AUXB Out | Output controlled by [AUX B] key |
| 5 | AUX3 | None | AUX 3<br>None | |
| | | External PTT | AUX 3<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 3<br>Speaker Mute | Input |
| | | External Monitor | AUX 3<br>ExternalMoni | Input |
| | | Up Key | AUX 3<br>Up Key | Input |
| | | Down Key | AUX 3<br>Down Key | Input |
| | | External Hook | AUX 3<br>ExternalHook | Input |
| | | Emergency | AUX 3<br>Emergency | Input |
| | | Mic Mute | AUX 3<br>Mic Mute | Input |

| | | | | |
|---|---|---|---|---|
| 5 | AUX3 | RxCarrier | AUX 3<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 3<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 3<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 3<br>AUXB Out | Output controlled by [AUX B] key |
| 6 | AUX4 | None | AUX 4<br>None | |
| | | External PTT | AUX 4<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 4<br>Speaker Mute | Input |
| | | External Monitor | AUX 4<br>ExternalMoni | Input |
| | | Up Key | AUX 4<br>Up Key | Input |
| | | Down Key | AUX 4<br>Down Key | Input |
| | | External Hook | AUX 4<br>ExternalHook | Input |
| | | Emergency | AUX 4<br>Emergency | Input |
| | | Mic Mute | AUX 4<br>Mic Mute | Input |
| | | RxCarrier | AUX 4<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 4<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 4<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 4<br>AUXB Out | Output controlled by [AUX B] key |
| 7 | AUX5 | None | AUX 5<br>None | |
| | | External PTT | AUX 5<br>External PTT | Input |

| | | | | |
|---|---|---|---|---|
| 7 | AUX5 | Data PTT | AUX 5<br>Data PTT | Input |
| | | Speaker Mute | AUX 5<br>Speaker Mute | Input |
| | | External Monitor | AUX 5<br>ExternalMoni | Input |
| | | Up Key | AUX 5<br>Up Key | Input |
| | | Down Key | AUX 5<br>Down Key | Input |
| | | External Hook | AUX 5<br>ExternalHook | Input |
| | | Emergency | AUX 5<br>Emergency | Input |
| | | Mic Mute | AUX 5<br>Mic Mute | Input |
| | | RxCarrier | AUX 5<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 5<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 5<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 5<br>AUXB Out | Output controlled by [AUX B] key |
| 8 | AUX6 | None | AUX 6<br>None | |
| | | External PTT | AUX 6<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 6<br>Speaker Mute | Input |
| | | External Monitor | AUX 6<br>ExternalMoni | Input |
| | | Up Key | AUX 6<br>Up Key | Input |
| | | Down Key | AUX 6<br>Down Key | Input |
| | | External Hook | AUX 6<br>ExternalHook | Input |

| | | | | |
|---|---|---|---|---|
| 8 | AUX6 | Emergency | AUX 6<br>Emergency | Input |
| | | Mic Mute | AUX 6<br>Mic Mute | Input |
| | | RxCarrier | AUX 6<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 6<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 6<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 6<br>AUXB Out | Output controlled by [AUX B] key |
| 9 | AUX7 | None | AUX 7<br>None | |
| | | External PTT | AUX 7<br>External PTT | Input |
| | | Data PTT | AUX 1<br>Data PTT | Input |
| | | Speaker Mute | AUX 7<br>Speaker Mute | Input |
| | | External Monitor | AUX 7<br>ExternalMoni | Input |
| | | Up Key | AUX 7<br>Up Key | Input |
| | | Down Key | AUX 7<br>Down Key | Input |
| | | External Hook | AUX 7<br>ExternalHook | Input |
| | | Emergency | AUX 7<br>Emergency | Input |
| | | Mic Mute | AUX 7<br>Mic Mute | Input |
| | | RxCarrier | AUX 7<br>RxCarrierOut | Output, L: Carrier; H : No carrier |
| | | RxTone | AUX 7<br>RxTone Out | Output, L: CTCSS/CDCSS match |
| | | AUX A | AUX 7<br>AUXA Out | Output controlled by [AUX A] key |
| | | AUX B | AUX 7<br>AUXB Out | Output controlled by [AUX B] key |
| 10 | END | END | END | Display “END” to indicate the end of menu option |

**6. Select submenu "DataPassword", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Data Password | 88888888 | 88888888 | Default data, max. 8 Digital |
| | | 12345678 | 12345678 | Refer to Appendix 1 'Character Input" |
| | | Blank | ---------- | |

Dealer Mode 4: Scan Information

Select menu "Scan Inform", then press [PF6] to enter Scan Information Mode. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 4.1 | Scan Set |
| 4.2 | ZoneScanList |

**1. Select submenu "Scan Set", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Scan Type | Single Zone Scan | Scan<br>Single Zone | Scan the added channel of the current zone |
| | | Multi-Zone Scan | Scan<br>Multi Zone | Scan the added channel of zones in multi-scan list |
| | | List Zone Scan | Scan<br>List Zone | Scan the added channel of zones in current zone scan list |
| 2 | Scan Restart | Time Operated | Scan<br>Time OP | |
| | | Carrier Operated | Scan<br>Carrier OP | |
| 3 | Priority Scan1 | Off | PRI 1<br>Off | Default |
| | | Fixed | PRI 1<br>Fixed | Dealer mode set |
| | | Selected | PRI 1<br>Selected | Always Set current CH as priority CH |
| | | Operator Select | PRI 1<br>Operator Sel | Set current CH as priority CH by key operation (hold [scan], press [MONI] 3 times |
| 4 | Priority Scan 2 | Off | PRI 2<br>Off | Default |
| | | Fixed | PRI 2<br>Fixed | Dealer mode set |

| | | | | |
|---|---|---|---|---|
| | | Selected | PRI 2<br>Selected | Always Set current CH as priority CH |
| | | Operator Select | PRI 2<br>Operator Sel | Set current CH as priority CH by key operation (hold [scan], press [MONI] 3 times |
| 5 | Priority Channel1 | Off | PRICH1 Off | Ch: Off, 1-512 |
| | | Zone | 1 | Selector Knob: change a channel or zone (default CH) |
| | | Channel | PRICH1 1 | [PF5]: channel/zone<br>[PF4]: Priority CH On/Off |
| 6 | Priority Channel 2 | Off | PRICH2 Off | Ch: Off,1-512 |
| | | Zone | 1 | Selector Knob: change a channel or zone (default CH) |
| | | Channel | PRICH2 1 | [PF5]: channel/zone<br>[PF4]: Priority CH On/Off |
| 7 | Priority Ch Temporary Add/Del | Both Off | PrioBoth Off | |
| | | Priority 1 On | Priority 1 On | |
| | | Priority 2 On | Priority 2 On | |
| | | Both On | Prio Both On | |
| 8 | Priority Ch detect | CTC/DCS Off | Prio<br>CTC/DCS Off | Detect carrier only at priority channel |
| | CTCSS/CDCSS | CTC/DCS On | Prio<br>CTC/DCS On | Carrier and Signal at priority channel |
| 9 | Look Back A | 2.0s | Scan<br>LBTimeA 2.0S | The time period that radio returns to a priority channel from a normal channel when no carrier is being received on the priority channel. |
| | | 0.5-5s | Scan<br>LBTimeA 0.5S | |
| | | 0.1s/1Step | Scan<br>LBTimeA 5.0S | |
| 10 | Look Back B | 2.0s | Scan<br>LBTimeB 2.0S | The time period that radio returns to a priority channel from a normal channel when signal is present on priority channel but not matching its signalling. |
| | | 0.5-5s | Scan<br>LBTimeB 0.5S | |
| | | 0.1s/1Step | Scan<br>LBTimeB 5.0S | |
| 11 | Revert Channel | Last used (RX) | Scan<br>Revert Call | Default |
| | | Last used (TX) | Scan<br>Revert Used | |
| | | Selected | Scan<br>Revert SEL | |

| | | | | |
|---|---|---|---|---|
| 11 | Revert Channel | Selected + TalkBack | Scan SEL TalkBack | |
| | | Priority 1 | Scan Revert PRIO1 | |
| | | Priority 1 +TalkBack | Scan P1 TalkBack | |
| | | Priority 2 | Scan Revert PRIO2 | |
| | | Priority 2 +TalkBack | Scan P2 TalkBack | |
| 12 | Revert Channel Display | On | Revt Display On | |
| | | Off | Revt Display Off | |
| 13 | Dropout Delay Time | 3s | Scan DropOutT 3 | Default |
| | | 1-300s | Scan DropOutT 1 | |
| | | 1s/1Step | Scan DropOutT 300 | |
| 14 | Scan Dwell Time | 3s | Scan DwellT 3 | Default |
| | | 1-300s | Scan DwellT 1 | |
| | | 1s/1Step | Scan DwellT 300 | |
| 15 | Off Hook Scan | Scan | Off Hook Scan | Scanning is not controlled by hook status |
| | | No Scan | Off Hook No Scan | To scan, microphone must be on hook |
| 16 | END | END | END | Display “END” indicating the end of menu option |

**2. Select submenu “ZoneScan List”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Select a Zone | 100 | Zone 100 | Selector Knob：select zone 1-512<br>Only existing zone can be set.<br>[PF6]: enter the second item |

| | | | | |
|---|---|---|---|---|
| 2 | Zone Scan List Enable/Disable | | List Enable | Only enabled list for zone list scan, |
| | | | List Disable | |
| 3 | Add/Del | Add | Zone 1 Add | Selector Knob: change channel 1－256<br>Only existing zone can be added/ deleted.<br>[PF5]: ADD/DEL (save directly)<br>[PF6]: enter the first item |
| | | Del | Zone 1 Del | |
| 4 | END | END | END | Display “END” to indicate the end of menu option |

Dealer Mode 5: DTMF Set

Select menu “DTMF Set”, then press [PF6] to enter DTMF Set Mode. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 5.1 | DTMF Encode |
| 5.2 | DTMF Decode |
| 5.3 | AutoDialList |
| 5.4 | PTT ID |

**1. Select submenu “DTMF Encode”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | DTMF Speed (Digital/Sec) | 6 | DTMF Speed 6 | |
| | | 8 | DTMF Speed 8 | |
| | | 10 | DTMF Speed 10 | |
| | | 15 | DTMF Speed 15 | |
| 2 | First Digit Time | 0ms | 1st DT 0ms | First digit = first digit time + digit time |
| | | 100ms | 1st DT 100ms | Default |
| | | 500ms | 1st DT 500ms | |
| | | 1000ms | 1st DT 1000ms | 10ms/1Step |

| | | | | |
|---|---|---|---|---|
| 3 | Digit Time<br>(＊and＃) | 0ms | * #<br>DT 0ms | First: Max (first digit time,*and# time) + digit time<br>Not first: * and # time + digit time |
| | | 100ms | * #<br>DT 100ms | Default |
| | | 500ms | * #<br>DT 500ms | |
| | | 1000ms | * #<br>DT 1000ms | 10ms/1Step |
| 4 | DTMF Transmit Delay Time | 200ms | Tx<br>RDT 200ms | |
| | | 100-1000ms | Tx<br>RDT 100ms | Default |
| | | | Tx<br>RDT 1000ms | 50ms/1Step |
| 5 | Dial ID | OFF | DTMF<br>Dial ID Off | Keypad dial BOT&EOT ID |
| | | PTT ID 1 | DTMF<br>Dial ID 1 | |
| | | PTT ID 2 | DTMF<br>Dial ID 2 | |
| | | PTT ID 3 | DTMF<br>Dial ID 3 | |
| | | PTT ID 4 | DTMF<br>Dial ID 4 | |
| 6 | DTMF Hold Time | OFF | DTMF<br>HoldTime Off | |
| | | 0.5-2.0S<br>Step 0.5s | Hold<br>Time 0.5s | |
| | | | Hold<br>Time 2.0s | Default |
| 7 | Store & Send | OFF | DTMF<br>Sto&Send Off | |
| | | ON | DTMF<br>Sto&Send On | |
| 8 | D Key Assignment | D Code | DTMF<br>DKey D-Code | |
| | | Pause1-16s | DTMF<br>DKeyPause 1 | |
| | | | DTMF<br>DkeyPause 16 | |

| | | | | |
|---|---|---|---|---|
| 9 | DTMF Side Tone | Side Tone Off | DTM F SideTone Off | |
| | | Side Tone On | DTM F SideTone On | |
| 10 | Auto Dial | Auto Dial Off | AutoDial Off | |
| | | Auto Dial On | AutoDial On | |
| 11 | Auto Dial Programming | AutoDialP Off | AutoDP Off | |
| | | AutoDialP On | AutoDP On | |
| 12 | Manual Dial | Manual Dial Off | ManuDial Off | Hold [PTT], then dial |
| | | Manual Dial On | ManuDial On | |
| 13 | Keypad Auto Tx | Auto Tx Off | KeyAutoTxOff | Not sent DTMF when only DTMF keys are pressed. |
| | | Auto Tx On | KeyAutoTx On | Sent DTMF by pressing a DTMF Keypad key |
| 14 | END | END | END | Display “END” indicating the end of menu option |

**Notes:**

1) If a transmission starts with the "*" or "#" tone, the radio compares the tone duration with the set "First Digit Time", and adapts the longer time of the two to the first "*" or "#" tone.
2) DTMF Transmit Delay Time sets the delay time from from the starting of transmission to the sending of the first DTMF digit. Making this value longer has a similar effect as setting the First Digit Time longer. When using DTMF and CTCSS/CDCSS it is recommended to set this parameter to 100 ms or more.
3) If automatic DTMF encode function (PTT ID, Auto Dial, Store & Send and Dial ID) is used for DTMF Call, DTMF Speed must be set 6, 8 or 10 digits per second.

**2. Select submenu "DTMF Decode", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Primary Code | 12345678 | 12345678 | |
| | | ABCDEF12 | ABCDEF12 | |
| 2 | Secondary Code | 12345678 | 12345678 | |
| | | ABCDEF12 | ABCDEF12 | |
| 3 | Auto Reset Time | Off | Auto RstTime Off | |
| | | 1-300s | Auto RstTime 1S | |
| | | | Auto RstTime 300S | |

| | | | | |
|---|---|---|---|---|
| 4 | Primary Decode Response | Off | PDR None | |
| | | Ring | PDR Ring | |
| | | Alert | PDR Alert | |
| | | Transpond | PDR Transpond | |
| | | Alert & Tran | PDR Alert & Tran | |
| 5 | Primary Decode Alert Tone | Alert 1-8 | PDR Alert Tone 1 | Ref. Alert Tone in Function Set Mode |
| | | | PDR Alert Tone 8 | |
| 6 | Secondary Decode Response | Off | SDR None | |
| | | Ring | SDR Ring | |
| | | Alert | SDR Alert | |
| | | Transpond | SDR Transpond | |
| | | Alert & Tran | SDR Alert & Tran | |
| 7 | Secondary Decode Alert Tone | Alert 1-8 | SDR Alert Tone 1 | Ref. Alert Tone in Function Set Mode |
| | | | SDR Alert Tone 8 | |
| 8 | END | END | END | Display “END” indicating the end of menu options |

**3. Select submenu “AutoDialList”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Auto Dial No. | 1-32 Step 1 | AutoDial 1 | |
| | | | AutoDial 32 | |
| 2 | Auto Dial Name | ASCII CODE | Name AutoDial N | |
| | | | Name ---------- | No input |
| 3 | Auto Dial Code | ABCD123456789012 | Code ABCD12345678 | It will be scrolled as >=12 |
| | | | Code ---------- | No input |
| 4 | END | END | END | Display “END” indicating the end of menu options |

**3. Select submenu "PTT ID", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | PTT ID No. | 1-4<br>Step 1 | PTT ID 1 | |
| | | | PTT ID 4 | |
| 2 | PTT ID Type | BOT | PTT ID BOT | |
| | | EOT | PTT ID EOT | |
| | | BOTH | PTT ID BOTH | |
| 3 | BOT of PTT ID | ABCD12345678 | BOT<br>ABCD12345678 | It will be scrolled as >=12 |
| | | | BOT<br>---------- | No input |
| 4 | EOT of PTT ID | ABCD12345678 | EOT<br>ABCD12345678 | It will be scrolled as >=12 |
| | | | EOT<br>---------- | No input |
| 5 | END | END | END | Display "END" indicating the end of menu options |

Dealer Mode 6: 2-Tone Set

Select menu "2-Tone Set", then press [PF6] to enter 2-Tone Set Mode. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 6.1 | 2-Tone Encode |
| 6.2 | 2-Tone Decode |
| 6.3 | 2-Tone Option |

**1. Select submenu "2-Tone Encode", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 2-Tone Code No. | 1-32<br>Step 1 | 2-Tone 1 | |
| | | | 2-Tone 32 | |
| 2 | 2-Tone Code Name | ASCII Code | Name<br>2-Tone 1 | |
| | | -------- | Name<br>-------- | No input |
| 3 | Tone A Frequency | 288.5-3100Hz | Step<br>A: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>A: 3100.0Hz | |

| | | | | |
|---|---|---|---|---|
| 4 | Tone B Frequency | 288.5-3100Hz | Step<br>B: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>B: 3100.0Hz | |
| 5 | Tone A Duration | 0.5-10.0s<br>Step 0.1s | Dur.<br>A: 0.5S | |
| | | | Dur.<br>A: 10.0S | |
| 6 | Tone B Duration | 0.5-10.0s<br>Step 0.1s | Dur.<br>B: 0.5S | |
| | | | | |
| | | | Dur.<br>B: 10.0S | |
| | | | | |
| 7 | Gap Duration | 0.0-2.0s<br>Step 0.1s | Dur.<br>Gap: 0.0S | |
| | | | Dur.<br>Gap: 2.0S | |
| 8 | Long A Duration | Off | Dur.<br>Long: Off | |
| | | | | |
| | | 0.5-10.0s | Dur.<br>Long: 0.5S | |
| | | | Dur.<br>Long: 10.0S | |
| 9 | END | END | END | Display “END” indicating the end of menu options |

**2. Select submenu “2-Tone Decode”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 2-Tone Code No. | 1-8<br>Step 1 | 2-Tone 1 | |
| | | | 2-Tone 8 | |
| 2 | Decode 1 Format | A-B | Decode1: A-B | |
| | | A-C | Decode1: A-C | |
| | | A-D | Decode1: A-D | |
| | | B-A | Decode1: B-A | |
| | | B-C | Decode1: B-C | |
| | | B-D | Decode1: B-D | |

| | | | | |
|---|---|---|---|---|
| 2 | Decode 1 Format | C-A | Decode1: C-A | |
| | | C-B | Decode1: C-B | |
| | | C-D | Decode1: C-D | |
| | | D-A | Decode1: D-A | |
| | | D-B | Decode1: D-B | |
| | | D-C | Decode1: D-C | |
| | | Long A | Decode1: A | |
| | | Long B | Decode1: B | |
| | | Long C | Decode1: C | |
| 3 | Decode 2 Format | None | Decode2: None | |
| | | A-B | Decode2: A-B | |
| | | A-C | Decode2: A-C | |
| | | A-D | Decode2: A-D | |
| | | B-A | Decode2: B-A | |
| | | B-C | Decode2: B-C | |
| | | B-D | Decode2: B-D | |
| | | C-A | Decode2: C-A | |
| | | C-B | Decode2: C-B | |
| | | C-D | Decode2: C-D | |
| | | D-A | Decode2: D-A | |
| | | D-B | Decode2: D-B | |
| | | D-C | Decode2: D-C | |
| | | Long A | Decode2: A | |
| | | Long B | Decode2: B | |
| | | Long C | Decode2: C | |
| 4 | Decode 3 Format | None | Decode3: None | |
| | | A-B | Decode3: A-B | |
| | | A-C | Decode3: A-C | |
| | | A-D | Decode3: A-D | |
| | | B-A | Decode3: B-A | |
| | | B-C | Decode3: B-C | |

| | | | | |
|---|---|---|---|---|
| 4 | Decode 3 Format | B-D | Decode3: B-D | |
| | | C-A | Decode3: C-A | |
| | | C-B | Decode3: C-B | |
| | | C-D | Decode3: C-D | |
| | | D-A | Decode3: D-A | |
| | | D-B | Decode3: D-B | |
| | | D-C | Decode3: D-C | |
| | | Long A | Decode3: A | |
| | | Long B | Decode3: B | |
| | | Long C | Decode3: C | |
| 5 | Decode 4 Format | None | Decode4: None | |
| | | A-B | Decode4: A-B | |
| | | A-C | Decode4: A-C | |
| | | A-D | Decode4: A-D | |
| | | B-A | Decode4: B-A | |
| | | B-C | Decode4: B-C | |
| | | B-D | Decode4: B-D | |
| | | C-A | Decode4: C-A | |
| | | C-B | Decode4: C-B | |
| | | C-D | Decode4: C-D | |
| | | D-A | Decode4: D-A | |
| | | D-B | Decode4: D-B | |
| | | D-C | Decode4: D-C | |
| | | Long A | Decode4: A | |
| | | Long B | Decode4: B | |
| | | Long C | Decode4: C | |
| 6 | Tone A Frequency | 288.5-3100Hz | Step<br>A: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>A: 3100.0Hz | |

| | | | | |
|---|---|---|---|---|
| 7 | Tone B Frequency | 288.5-3100Hz | Step<br>B: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>B: 3100.0Hz | |
| 8 | Tone C Frequency | 288.5-3100Hz | Step<br>C: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>C: 3100.0Hz | |
| 9 | Tone D Frequency | 288.5-3100Hz | Step<br>D: 288.5Hz | Press [PF4] to switch between 0.1Hz/1Hz/10Hz/100Hz step |
| | | | Step<br>D: 3100.0Hz | |
| 10 | Call Response 1 | None | D1<br>None | |
| | | Alert | D1<br>Alert | |
| | | Transpond | D1<br>Transpond | |
| | | Alert & Tran | D1<br>Alert & Tran | |
| 11 | Call Response 2 | None | D2<br>None | |
| | | Alert | D2<br>Alert | |
| | | Transpond | D2<br>Transpond | |
| | | Alert & Tran | D2<br>Alert & Tran | |
| 12 | Call Response 3 | None | D3<br>None | |
| | | Alert | D3<br>Alert | |
| | | Transpond | D3<br>Transpond | |
| | | Alert & Tran | D3<br>Alert & Tran | |

| | | | | |
|---|---|---|---|---|
| 13 | Call Response 4 | None | D4<br>None | |
| | | Alert | D4<br>Alert | |
| | | Transpond | D4<br>Transpond | |
| | | Alert & Tran | D4<br>Alert & Tran | |
| 14 | Decode 1<br>Alert Tone | Tone A | D1<br>Tone A | |
| | | Decode Code | D1<br>Decode Code | |
| | | Alert 1-8 | D1<br>Alert Tone 1 | Ref. “Alert Tone” in Function Set Mode |
| | | | D1<br>Alert Tone 8 | |
| 15 | Decode 2<br>Alert Tone | Tone A | D2<br>Tone A | |
| | | Decode Code | D2<br>Decode Code | |
| | | Alert 1-8 | D2<br>Alert Tone 1 | Ref. “Alert Tone” in Function Set Mode |
| | | | D2<br>Alert Tone 8 | |
| 16 | Decode 3<br>Alert Tone | Tone A | D3<br>Tone A | |
| | | Decode Code | D3<br>Decode Code | |
| | | Alert 1-8 | D3<br>Alert Tone 1 | Ref. “Alert Tone” in Function Set Mode |
| | | | D3<br>Alert Tone 8 | |
| 17 | Decode 4<br>Alert Tone | Tone A | D4<br>Tone A | |
| | | Decode Code | D4<br>Decode Code | |
| | | Alert 1-8 | D4<br>Alert Tone 1 | Ref. “Alert Tone” in Function Set Mode |
| | | | D4<br>Alert Tone 8 | |

| | | | | |
|---|---|---|---|---|
| 18 | Tone A Duration | 0.5-10.0s Step 0.1s | Dur. A: 0.5S | |
| | | | Dur. A: 10.0S | |
| 19 | Tone B Duration | 0.5-10.0s Step 0.1s | Dur. B: 0.5S | |
| | | | Dur. B: 10.0S | |
| 20 | Gap Duration | 0.0-2.0s Step 0.1s | Dur. Gap: 0.0S | |
| | | | Dur. Gap: 2.0S | |
| 21 | Long A Duration | Off | Dur. Long: Off | |
| | | 0.5-10.0s | Dur. Long: 0.5S | |
| | | | Dur. Long: 10.0S | |
| 22 | END | END | END | Display “END” indicating the end of menu options |

**3. Select submenu “2-Tone Option”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 2-Tone Tx Rise Time | 200ms | Rise Time 200ms | Default |
| | | 100-1000ms | Rise Time 100ms | |
| | | | Rise Time 1000ms | 50ms/1Step |
| 2 | 2-Tone Tx Tone | Off | Tone Off | |
| | | SideTone | SideTone | |
| | | Short Beep | Short Beep | |
| 3 | Auto Rese Time | Off | RstTime OFF | |
| | | 1-300s | Auto | |
| | | | RstTime 1S | |
| 4 | END | END | END | Display “END” indicating the end of menu options |

Dealer Mode 7: 5-Tone Set

Select menu “5-Tone Set”, then press [PF6] to enter 5-Tone Set Mode. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 7.1 | Parameter |
| 7.2 | Encode Teleg |
| 7.3 | Encode Frame |
| 7.4 | EncodeOption |
| 7.5 | Decode Teleg |
| 7.6 | DecodeOption |

**1. Select submenu “Parameter”, then press [PF6] to enter. Select Parameter 1-16 to set 5-Tone parameters.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 5-Tone Parameter | Parameter1-16<br>Step 1 | Parameter 1<br>Parameter 16 | Default: Parameter 1 |
| 2 | SingleTone | SigleTone 0-F | SingleTone 0<br>SingleTone F | Default: SingleTone F |
| 3 | Connect ID | Off | CNCT<br>Off | Default: Off |
| | | TxCode 1-32 | CNCT<br>ID TxCode 1<br>CNCT<br>ID TxCode 32 | |
| 4 | Disconnect ID | Off | DCNT<br>Off | Default: Off |
| | | TxCode 1-32 | DCNT<br>ID TxCode 1<br>DCNT<br>ID TxCode 32 | |
| 5 | TX/RX Address Standard | ZVEL1 | TxRx<br>ZVEL1 | Default |
| | | ZVEL2 | TxRx<br>ZVEL2 | |
| | | ZVEL3 | TxRx<br>ZVEL3 | |

| | | | | |
|---|---|---|---|---|
| 5 | TX/RX Address Standard | PZVEI | TxRx<br>PZVEI | |
| | | DZVEI | TxRx<br>DZVEI | |
| | | PDZVEI | TxRx<br>PDZVEI | |
| | | CCIR1 | TxRx<br>CCIR1 | |
| | | CCIR2 | TxRx<br>CCIR2 | |
| | | PCCIR | TxRx<br>PCCIR | |
| | | EEA | TxRx<br>EEA | |
| | | Eurosignal | TxRx<br>Eurosignal | |
| | | Natel | TxRx<br>NATEL | |
| | | EIA | TxRx<br>EIA | |
| | | MODAT | TxRx<br>MODAT | |
| | | CCITT | TxRx<br>CCITT | |
| | | USER DEFINED | TxRx<br>USER DEFINED | |
| 6 | Decode Code 1 | None | DC1<br>None | |
| | | Decode Telegram 1-10 | DC1<br>Telegram 1 | |
| | | | DC1<br>Telegram 10 | |
| 7 | Decode Code 2 | None | DC2<br>None | |
| | | Decode Telegram 1-10 | DC2<br>Telegram 1 | |
| | | | DC2<br>Telegram 10 | |
| 8 | Decode Code 3 | None | DC3<br>None | |
| | | Decode Telegram 1-10 | DC3<br>Telegram 1 | |
| | | | DC3<br>Telegram 10 | |

| | | | | |
|---|---|---|---|---|
| 9 | Decode Code 4 | None | DC4<br>None | |
| | | Decode Telegram 1-10 | DC4<br>Telegram 1 | |
| | | | DC4<br>Telegram 10 | |
| 10 | END | END | END | Display “END” indicating the end of menu options |

**4. Select submenu “Encode Teleg”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 5-Tone EncodeTelegram | Encode Telegram 1-32 Step 1 | EncodeTel 1 | Default: EncodeTelegram 1 |
| | | | EncodeTel 32 | |
| 2 | First Frame | Disable | 1stF<br>Disable | Default: Disable |
| | | RxAdress | 1stF<br>RxAdress | |
| | | TxAdress | 1stF<br>TxAdress | |
| | | Frame 1-32 | 1st<br>Frame 1 | |
| | | | 1st<br>Frame 32 | |
| 3 | Second Frame | Disable | 2ndF<br>Disable | Default: Disable |
| | | RxAdress | 2ndF<br>RxAdress | |
| | | TxAdress | 2ndF<br>TxAdress | |
| | | Frame 1-32 | 2nd<br>Frame 1 | |
| | | | 2nd<br>Frame 32 | |
| 4 | Third Frame | Disable | 3rdF<br>Disable | Default: Disable |
| | | RxAdress | 3rd F<br>RxAdress | |
| | | TxAdress | 3rd F<br>TxAdress | |

| | | | | |
|---|---|---|---|---|
| | | Frame 1-32 | 3rd Frame 1<br>3rd Frame 32 | |
| 5 | Transpond Decode | Disable | Disable | Default: Disable |
| | | DecodeTel 1-10 | Decode Tel 1<br>Decode Tel 10 | |
| 6 | TelegramName | | Name 12345<br>Name ---------- | Refer to Appendix 1 “Character Input” |
| 7 | END | END | END | Display “END” indicating the end of menu options |

**4. Select submenu “EncodeFrame”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Frame | Frame 1-32 | Frame 1<br>Frame 32 | Default: Frame 1 |
| 2 | 5-Tone Standard | ZVEL1 | ZVEL1 | Default: ZVEL1 |
| | | ZVEL2 | ZVEL2 | |
| | | ZVEL3 | ZVEL3 | |
| | | PZVEI | PZVEI | |
| | | DZVEI | DZVEI | |
| | | PDZVEI | PDZVEI | |
| | | CCIR1 | CCIR1 | |
| | | CCIR2 | CCIR2 | |
| | | PCCIR | PCCIR | |
| | | EEA | EEA | |
| | | Eurosignal | Eurosignal | |
| | | Natel | NATEL | |
| | | EIA | EIA | |
| | | MODAT | MODAT | |
| | | CCITT | CCITT | |
| | | USER DEFINED | USER DEFINED | |

| | | | | |
|---|---|---|---|---|
| 3 | Frame Code | 12345 | Fcode 12345 | Default:FFFFF |
| 4 | END | END | END | Display “END” indicating the end of menu options |

**5. Select submenu “EncodeOption”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 5-Tone Delay 1 | 0-7000ms<br>Step 10ms | 1st<br>Delay 0ms | Default: 100ms |
| | | | 1st<br>Delay 7000ms | |
| 2 | 5-Tone Delay 2 | 0-7000ms<br>Step 10ms | 2nd<br>Delay 0ms | Default: 300ms |
| | | | 2nd<br>Delay 7000ms | |
| 3 | 5-Tone Delay 3 | 0-7000ms<br>Step 10ms | 3rd<br>Delay 0ms | Default: 300ms |
| | | | 3rd<br>Delay 7000ms | |
| 4 | 5-Tone<br>End Delay | 0-7000ms<br>Step 10ms | End<br>Delay 0ms | Default: 100ms |
| | | | End<br>Delay 7000ms | |
| 5 | 5-Tone<br>Transpond Delay | 0-7000ms<br>Step 10ms | Tspd<br>Delay 0ms | Default: 1000ms |
| | | | Tspd<br>Delay 7000ms | |
| 6 | 5-Tone<br>First Tone Length | 0-7000ms<br>Step 10ms | 1st<br>ToneL 0ms | Default: 1000ms |
| | | | 1st<br>ToneL 7000ms | |
| 7 | 5-Tone Delay<br>2Tone | Off | D2ToneOff | Default: Off |
| | | 0-9,A-F<br>Step 1 | Delay2Tone 0 | |
| | | | Delay2Tone F | |
| 8 | 5-Tone Delay<br>3Tone | Off | D3ToneOff | Default: Off |
| | | 0-9,A-F<br>Step 1 | Delay3Tone 0 | |
| | | | Delay3Tone F | |

| | | | | |
|---|---|---|---|---|
| 9 | 5-Tone Side Tone | Side Tone On | Side Tone On | Default: Off |
| | | Side Tone Off | Side Tone Off | |
| 10 | 5-Tone Monitor | Monitor On | Monitor On | Default: On |
| | | Monitor Off | Monitor Off | |
| 11 | END | END | END | Display “END” indicating the end of menu options |

**6. Select submenu “Decode Telegr”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 5Tone Decode Telegram | Decode Telegram 1-10 | DecodeTel 1 | |
| | | | Decode Tel 10 | |
| 2 | 5Tone Standard | ZVEL1 | ZVEL1 | Default: ZVEL1 |
| | | ZVEL2 | ZVEL2 | |
| | | ZVEL3 | ZVEL3 | |
| | | PZVEI | PZVEI | |
| | | DZVEI | DZVEI | |
| | | PDZVEI | PDZVEI | |
| | | CCIR1 | CCIR1 | |
| | | CCIR2 | CCIR2 | |
| | | PCCIR | PCCIR | |
| | | EEA | EEA | |
| | | Eurosignal | Eurosignal | |
| | | Natel | NATEL | |
| | | EIA | EIA | |
| | | MODAT | MODAT | |
| | | CCITT | CCITT | |
| | | USER DEFINED | USER DEFINED | |
| 3 | Frame 1 | None | F1 None | Default: None |
| | | Normal | F1 Normal | |
| | | Rx Address | F1 Rx Address | |
| | | Single | F1 Single Tone | |
| 4 | Frame 2 | None | F2 None | Default: None |
| | | Normal | F2 Normal | |
| | | Rx Address | F2 Rx Address | |

| | | | | |
|---|---|---|---|---|
| 5 | Frame 3 | None | F3<br>None | Default: None |
| | | Normal | F3<br>Normal | |
| | | Rx Address | F3<br>Rx Address | |
| | | Single | F3<br>Single Tone | |
| 6 | Monitor | Disable | Moni Disable | Default: Open |
| | | Close | Moni Close | |
| | | Open | Moni Open | |
| 7 | Stun | Disable | Stun Disable | Default: Disable |
| | | Stun | Stun Enable | |
| | | Revive | Stun Revive | |
| | | Kill | Stun Kill | |
| 8 | Scan | Disable | Scan Disable | Default: Disable |
| | | Start | Scan Start | |
| | | Stop | Scan Stop | |
| 9 | Transpond | None | None | Default: None |
| | | Encode | EncodeTel 1 | |
| | | Telegram1-32 | EncodeTel 32 | |
| 10 | Individual<br>Alert Tone | | IndAlert Off | |
| | | Alert 1-8 | IndivdAlert1 | |
| | | | IndivdAlert8 | |
| 11 | Group<br>Alert Tone | Off | GrpAlert Off | |
| | | Alert 1-8 | GroupAlert 1 | |
| | | | GroupAlert 8 | |
| 12 | END | END | END | Display “END” indicating the end of menu options |

**6. Select submenu "Decode Option", then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | 5 Tone Auto Reset Time | Off | Auto Reset Time Off | |
| | | 1-180s Step 1s | Auto ResetTime1 | Default: Off |
| | | | Auto ResetTime180 | |
| 2 | Next Decode Delay Time | 0-2550ms Step 10ms | NDDT 0ms | Default: 1600ms |
| | | | NDDT 2550ms | |
| 3 | Alert | Alert On Alert Off | Alert On Alert Off | Default: On |
| 4 | LED | Enable | LED Enable LED Disable | Default: Enable |
| 5 | END | END | END | Display "END" indicating the end of menu options |

Dealer Mode 8: Embedded Message

Select menu "Embedded Msg", and then press [PF6] to enter if no password is set or a correct password is entered. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 8.1 | EmbeddedMsg1 |
| 8.2 | EmbeddedMsg2 |
| 8.3 | EmbeddedMsg3 |
| 8.4 | EmbeddedMsg4 |
| 8.5 | Msg Password |

Press [PF6] to enter any of the above menu options, the selected embedded message or message password would be displayed. Then press [PF1] to edit the embedded message or message password. Please refer to Appendix 1 "Character Input".

Dealer Mode 9: Emergency Set

Select menu “Emergency Set”, then press [PF6] to enter.

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Emergency Zone<br>Emergency CH | ZONE: 1-256<br>CH: 1-512 | 1<br>CH 100. | Selector Knob: change a channel or zone (default ch)<br>[PF5]: channel/zone |
| 2 | Emergency Cycle | Continuous | Cycle Contin | |
| | | 1-200 | Cycle 1 | |
| | | Step 1 | Cycle 200 | |
| 3 | Emergency Key Delay Time | Off | Key Deley Off | |
| | | 0.1-5.0s | Key Deley 0.1S | |
| | | Step 0.1s | Key Deley 5.0S | |
| 4 | Tx Duration | 20s | Tx Dur. 20S | Default data |
| | | 1-60s<br>Step 1s | Tx Dur. 1S | |
| | | | Tx Dur. 60S | |
| 5 | Rx Duration | 20s | Tx Dur. 20S | Default data |
| | | 1-180s | Tx Dur. 1S | |
| | | Step 1s | Tx Dur. 180S | |
| 6 | Emergency Type | Off | Type Off | |
| | | DTMF | Type DTMF | |
| | | MSK | Type MSK | |
| 7 | Emergency ID | ---------- | ID<br>---------- | No input |
| | | 0000000000000000<br>9999999999999999 | ID<br>0000000000000000 | |
| | | | ID<br>9999999999999999 | |
| 8 | Emergency Led | Off | LED Off | |
| | | On | LED On | |

| | | | | |
|---|---|---|---|---|
| 9 | Emergency Display Text | ---------- | Tex t<br>---------- | No Text to be Displayed |
| | | Emergency | Tex t<br>Emergency | Max 12 |
| 10 | Emergency Mode | Silent | Mod e<br>Silent | |
| | | Audible | Mod e<br>Audible | |
| 11 | Tone 1 Duration | 0-255s<br>Step 1s | Ton e<br>1 Dur. 0S | |
| | | | Ton e<br>1 Dur. 255S | |
| 12 | Tone 2 Duration | 0-255s<br>Step 1s | Ton e<br>2 Dur. 0S | |
| | | | Ton e<br>2 Dur. 255S | |
| 13 | END | END | END | Display “END” indicating the end of menu options |

Dealer Mode 10: STUN Inform

Select menu “Stun Inform”. Press [PF6], the radio enters Stun Information Mode if no password is set or a correct password is entered.

| Sub Menu | Menu Item |
|---|---|
| 10.1 | Stun Set |
| 10.2 | Stun Password |

**1. Select submenu ‘Stun Set”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | Stun Encode | ---------- | Stun<br>Disable | No encode, disable Stun |
| | | 0000000 | Stun<br>0000000 | |
| | | ~FFFFFFF | Stun<br>FFFFFFF | |
| 2 | Stun Response | TX Inhibit | Stun<br>TX Inhibit | Default |
| | | TX/RX Inhibit | Stun<br>TXRX Inhibit | |

| | | | | |
|---|---|---|---|---|
| 2 | Stun Response | Kill | Stun<br>Kill | |
| 3 | END | END | END | Display “END” to indicate the end of menu options |

**2. Select submenu “Stun Password”, then press [PF6] to view the password. Then press [PF1] to edit the password. Please refer to Appendix 1 “Character Input”.**
**The password is numeric digit only, 8 digits maximum.**

Dealer Mode 11: Mode Information

Select menu “Mode Inform”, then press [PF6], the radio enters Mode Information Mode if no password is set or a correct password is entered. The menu options are shown as follows:

| Sub Menu | Menu Item |
|---|---|
| 11.1 | Mode Select |
| 11.2 | Mode Password |

**1. Select submenu “Mode Select”, then press [PF6] to enter.**

| No. | Function | Setting | Display | Remarks |
|---|---|---|---|---|
| 1 | User Set Mode | OFF | Mode<br>UserSet Off | |
| | | ON | Mode<br>UserSet On | Default |
| 2 | Channel Set Mode | OFF | Mode<br>CHSet Off | |
| | | ON | Mode<br>CHSet On | Default |
| 3 | Zone Information Mode | OFF | Mode<br>ZoneSet Off | |
| | | ON | Mode<br>ZoneSet On | Default |
| 4 | Function Set Mode | OFF | Mode<br>FuncSet Off | |
| | | ON | Mode<br>FuncSet On | Default |
| 5 | Scan Information Mode | OFF | Mode<br>ScanSet Off | |
| | | ON | Mode<br>ScanSet On | Default |

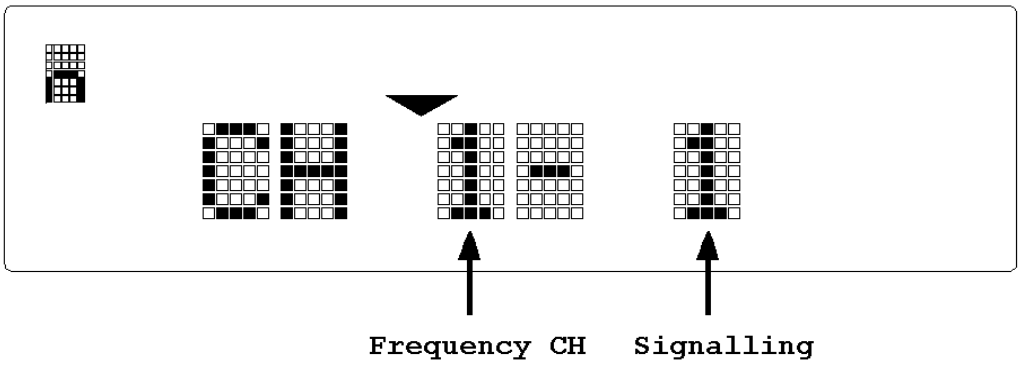
| | | | | |
|---|---|---|---|---|
| 6 | DTMF Set Mode | OFF | Mode<br>DTMFSet Off | |
| | | ON | Mode<br>DTMFSet On | Default |
| 7 | 2-Tone Set Mode | OFF | Mode<br>2ToneSet Off | |
| | | ON | Mode<br>2ToneSet On | Default |
| 8 | 5-Tone Set Mode | OFF | Mode<br>5ToneSet Off | |
| | | ON | Mode<br>5ToneSet On | Default |
| 9 | Embedded Message Mode | OFF | Mode<br>EmbedMsg Off | |
| | | ON | Mode<br>EmbedMsg On | Default |
| 10 | Emergency Set Mode | OFF | Mode<br>Emergency Off | |
| | | ON | Mode<br>Emergency On | Default |
| 11 | Stun Set Mode | OFF | Mode<br>Stun Set Off | |
| | | ON | Mode<br>Stun Set On | Default |
| 12 | Test Mode | OFF | Mode<br>LocalTestOff | |
| | | ON | Mode<br>LocalTest On | Default |
| 13 | Clone Mode | OFF | Mode<br>WireCloneOff | |
| | | ON | Mode<br>WireClone On | Default |
| 14 | Model Set Mode | OFF | Mode<br>ModelSel Off | |
| | | ON | Mode<br>ModelSel On | Default |
| 15 | Firmware Download Mode | OFF | Prog<br>FirmWare Off | |
| | | ON | Prog<br>FirmWare On | Default |

| | | | | |
|---|---|---|---|---|
| 16 | Firmware Version Display | OFF | Ver<br>Version Off | |
| | | ON | Ver<br>Version On | Default |
| 17 | END | END | END | Display “END” indicating the end of menu options |

**2. Select submenu “DBD Password”, then press [PF6] to view the password. Then press [PF1] to edit the password. Please refer to Appendix 1 “Character Input”.**
**The password is numeric digit only, 8 digits maximum.**

## Test Mode

**1. Turn power on while holding down [PF2], the radio enters Test Mode. Frequency test channel and signalling test channel are displayed.**




In this mode, the channel frequency (center, low, high) can be modified through the programming software.

| Model | RX/TX | 1 ( C ) | 2 ( L ) | 3 ( H ) | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 136-174M (V) | RX(MHz) | 155.15 | 136.15 | 173.85 | 145.55 | 164.55 | 155.00 | 155.20 | 155.40 |
| | TX(MHz) | 155.00 | 136.00 | 174.00 | 145.50 | 164.50 | 155.00 | 155.20 | 155.40 |
| 450-512M (U2) | RX(MHz) | 481.15 | 450.15 | 511.85 | 465.55 | 496.55 | 481.00 | 481.20 | 481.40 |
| | TX(MHz) | 481.00 | 450.00 | 512.00 | 465.50 | 496.50 | 481.00 | 481.20 | 481.40 |
| 350-400M (U5) | RX(MHz) | 375.15 | 350.15 | 399.85 | 362.55 | 387.55 | 375.00 | 375.20 | 375.40 |
| | TX(MHz) | 375.00 | 350.00 | 400.00 | 362.50 | 387.50 | 375.00 | 375.20 | 375.40 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 400-470M (U1) | RX(MHz) | 435.15 | 400.15 | 469.85 | 417.55 | 452.55 | 435.00 | 435.20 | 435.40 |
| | TX(MHz) | 435.00 | 400.00 | 470.00 | 417.50 | 452.50 | 435.00 | 435.20 | 435.40 |
| 440-490M (U4) | RX(MHz) | 465.15 | 440.15 | 489.85 | 452.55 | 477.55 | 465.00 | 465.20 | 465.40 |
| | TX(MHz) | 465.00 | 440.00 | 490.00 | 452.50 | 477.50 | 465.00 | 465.20 | 465.40 |
| 480-526M (U3) | RX(MHz) | 503.15 | 480.15 | 525.85 | 491.75 | 515.25 | 503.00 | 503.20 | 503.40 |
| | TX(MHz) | 503.00 | 480.00 | 526.00 | 491.70 | 515.20 | 503.00 | 503.20 | 503.40 |
| 380-430M (U6) | RX(MHz) | 405.15 | 380.15 | 429.85 | 392.55 | 417.55 | 405.00 | 405.20 | 405.40 |
| | TX(MHz) | 405.00 | 380.00 | 430.00 | 392.50 | 417.50 | 405.00 | 405.20 | 405.40 |
| 450-520M (U7) | RX(MHz) | 485.15 | 450.15 | 519.85 | 467.55 | 502.55 | 485.00 | 485.20 | 485.40 |
| | TX(MHz) | 485.00 | 450.00 | 520.00 | 467.50 | 502.50 | 485.00 | 485.20 | 485.40 |

Signallings are shown as follows:

| No. | RX | TX | Description |
|---|---|---|---|
| 1 | None | None | |
| 2 | None | 100Hz square wave | |
| 3 | CTCSS 67.0Hz | CTCSS 67.1Hz | |
| 4 | CTCSS 151.4Hz | CTCSS 151.4Hz | |
| 5 | CTCSS 210.7Hz | CTCSS 210.7Hz | |
| 6 | CTCSS 250.3Hz | CTCSS 250.3Hz | |
| 7 | CDCSS 023N | CDCSS 023N | |
| 8 | CDCSS 754I | CDCSS 754I | |
| 9 | DTMF (159D) | DTMF (159D) | |
| 10 | None | DTMF 9 | |
| 11 | 2-tone 321.7/928.1 | None | Tone duration: 1s/1s |
| 12 | Single tone 1200Hz | Single tone 1200Hz | Tone duration: 4s |
| 13 | None | Single tone 1000Hz | |
| 14 | MSK | MSK | |

**2. In Test Mode, the following functions can be accomplished by key pressing.**

| Key | Function | Description |
|---|---|---|
| Up | Volume Up | |

| | | |
|---|---|---|
| Down | Volume down | |
| PF1 | Wide band/Narrow band | |
| PF2 | Squelch Open/Close | " " icon appears when squelch is opened. |
| PF3 | Test Mode/ Adjustment Mode | |
| PF4 | Activate compander function | PF1: compander on/off<br>PF2: clock shift on/off<br>PF3: 1200/2400bps MSK |
| PF5 | Signalling Up | |
| PF6 | Signalling Down | |
| Selector Knob | Channel Up/Down | |

In Test Mode, press [PF4], then press the following key to enable the corresponding functions.

| | | |
|---|---|---|
| PF1 | Compander On/Off | "▼" icon appears when compander is turned On |
| PF2 | Clock shift On/Off | "A" icon appears when clock shift is turned On |
| PF3 | 1200/2400bps MSK | " " icon appears when 2400bps is selected |
| PF4 | Return to Test Mode | |
| PF5 | None | |
| PF6 | None | |

**3. In Test Mode, press [PF3] to enter Adjustment Mode. Turn the Selector Knob to choose your desired setting items.**

| No. | Dealer Mode | LCD Display |
|---|---|---|
| 1 | Frequency stability | Frequency |
| 2 | TX power | Tx Power |
| 3 | Max. deviation | Max.Deviate |
| 4 | CDCSS balance | CDCSSBalance |
| 5 | CTCSS deviation | CTCSSDeviate |
| 6 | CDCSS deviation | CDCSSDeviate |
| 7 | DTMF deviation | DTMFDeviate |
| 8 | MSK deviation | MSK Deviate |
| 9 | Single tone deviation | Tone Deviate |
| 10 | RX sensitivity | Rx Sensitivi |
| 11 | SQL open | Open SQL |
| 12 | SQL close | Close SQL |
| 13 | Rssi | Rssi |
| 14 | DI Deviation | DI Deviate |

In Test Mode, user can press the following key to switch models.

① Press [PF3] to toggle between Test Mode and Adjustment Mode.
Press [PF4] to toggle between Adjustment Mode and Model Set Mode ([PF4] is invalid if Model Set Mode is inhibited by your dealer. Refer to “Model Set Mode” for details).

② Press [PF6] to enter the selected mode.

**4. In Adjustment Mode, the following functions can be accomplished by key pressing.**

| Key | Function | Description |
|---|---|---|
| Up | Volume Up | |
| Down | Volume down | |
| PF1 | Return to Adjustment Item menu | |
| PF2 | Squelch Open/Close | “ ” icon appears when squelch is opened. |
| PF4 | Enter the previous item (Down) | |
| PF5 | Enter the next item (Up) | |
| PF6 | Save the settings, enter the next item | |
| Selector Knob | Adjust upwards/downwards | |

**5. Setting Items （＊＊＊：1-256）**

| Setting Item | Wideband/ Narrowband | Frequency | Main LCD | Sub LCD | Description |
|---|---|---|---|---|---|
| CDCSS Balance | Wide | Center | CDCSS BAL *** | __C | 100Hz square wave |
| | | Low | CDCSS BAL *** | __L | 100Hz square wave |
| | | High | CDCSS BAL *** | __H | 100Hz square wave |
| | Narrow | Center | CDCSS BAL *** | n_C | 100Hz square wave |
| CTCSS Deviation | Wide | Center | 67.0 DEV *** | __C | CTCSS: 67.0Hz |
| | | Low | 67.0 DEV *** | __L | CTCSS: 67.0Hz |
| | | High | 67.0 DEV *** | __H | CTCSS: 67.0Hz |
| | Narrow | Center | 67.0 DEV *** | n_C | CTCSS: 67.0Hz |
| | Wide | Center | 151.4 DEV *** | __C | CTCSS: 151.4Hz |
| | | Low | 151.4 DEV *** | __L | CTCSS: 151.4Hz |
| | | High | 151.4 DEV *** | __H | CTCSS: 151.4Hz |
| | Narrow | Center | 151.4 DEV *** | n_C | CTCSS: 151.4Hz |
| | Wide | Center | 254.1 DEV *** | __C | CTCSS: 254.1Hz |
| | | Low | 254.1 DEV *** | __L | CTCSS: 254.1Hz |
| | | High | 254.1 DEV *** | __H | CTCSS: 254.1Hz |
| | Narrow | Center | 254.1 DEV *** | n_C | CTCSS: 254.1Hz |

| | | | | | |
|---|---|---|---|---|---|
| CDCSS Deviation | Wide | Center | CDCSS DEV *** | __C | CDCSS: 023N |
| | | Low | CDCSS DEV *** | __L | CDCSS: 023N |
| | | High | CDCSS DEV *** | __H | CDCSS: 023N |
| | Narrow | Center | CDCSS DEV *** | n_C | CDCSS: 023N |
| DTMF Deviation | Wide | Center | DTMF DEV *** | | DTMF: 9 |
| | Narrow | Center | DTMF DEV *** | n__ | DTMF: 9 |
| MSK Deviation | Wide | Center | MSK DEV *** | | 0XAAA… |
| | Narrow | Center | MSK DEV *** | n__ | 0XAAA… |
| Single Tone Deviation | Wide | Center | Tone DEV *** | | 1KHz |
| | Narrow | Center | Tone DEV *** | n__ | 1KHz |
| RX Sensitivity | - | Low | Sensiti *** | __L | No signalling，SQ off |
| | - | Center/Low | Sensiti *** | _CL | No signalling，SQ off |
| | - | Center | Sensiti *** | __C | No signalling，SQ off |
| | - | High/Center | Sensiti *** | _HC | No signalling，SQ off |
| | - | High | Sensiti *** | __H | No signalling，SQ off |
| SQL Open | SQL 9 Wideband | Center | OpenSQL9 *** | __C | No signalling |
| | | Low | OpenSQL9 *** | __L | No signalling |
| | | High | OpenSQL9 *** | __H | No signalling |
| | SQL 9 Narrowband | Center | OpenSQL9 *** | n_C | No signalling |
| | SQL3 Wideband | Center | OpenSQL3 *** | __C | No signalling |
| | | Low | OpenSQL3 *** | __L | No signalling |
| | | High | OpenSQL3 *** | __H | No signalling |
| | SQL3 Narrowband | Center | OpenSQL3 *** | n_C | No signalling |
| SQL Close | SQL 9 Wideband | Center | CloseSQL9 *** | __C | No signalling |
| | | Low | CloseSQL9 *** | __L | No signalling |
| | | High | CloseSQL9 *** | __H | No signalling |
| | SQL 9 Narrowband | Center | CloseSQL9 *** | n_C | No signalling |
| | SQL3 Wideband | Center | CloseSQL3 *** | __C | No signalling |
| | | Low | CloseSQL3 *** | __L | No signalling |
| | | High | CloseSQL3 *** | __H | No signalling |
| | SQL3 Narrowband | Center | CloseSQL3 *** | n_C | No signalling |

| | | | | | |
|---|---|---|---|---|---|
| DI Deviation | Wide | Center | DI Deviate | C | No signalling |
| | | Low | DI Deviate | L | No signalling |
| | | High | DI Deviate | H | No signalling |
| | Narrow | Center | DI Deviate | nC | No signalling |

## Model Set Mode

1. Turn power on while holding down [PF2], the radio enters Test Mode. The frequency test channel and signalling test channel are displayed.
2. In Test Mode, press [PF3] to enter Adjustment Mode.
3. In Adjustment Mode, press [PF4] to enter Model Set Mode. “DESTINATION” and the model No. are displayed.
4. Turn the Selector Knob to choose model 1-6.
5. Press [PF6] to confirm.
6. Press [PF3] to return to Test Mode.

**Notes:**

1. Once the new model is set, previous channel settings (frequency, CTCSS/CDCSS, channel function settings) will be deleted, and part of functions are also changed. Therefore, do not make this operation unless it’s very necessary, such as changing the EEPROM or FLASH ROM, etc.
2. Initial Data Table

| Model | RX/TX | 1 ( C ) | 2 ( L ) | 3 ( H ) | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 136-174M (V) | RX(MHz) | 155.15 | 136.15 | 173.85 | 145.55 | 164.55 | 155.00 | 155.20 | 155.40 |
| | TX(MHz) | 155.00 | 136.00 | 174.00 | 145.50 | 164.50 | 155.00 | 155.20 | 155.40 |
| 450-512M (U2) | RX(MHz) | 481.15 | 450.15 | 511.85 | 465.55 | 496.55 | 481.00 | 481.20 | 481.40 |
| | TX(MHz) | 481.00 | 450.00 | 512.00 | 465.50 | 496.50 | 481.00 | 481.20 | 481.40 |
| 350-400M (U5) | RX(MHz) | 375.15 | 350.15 | 399.85 | 362.55 | 387.55 | 375.00 | 375.20 | 375.40 |
| | TX(MHz) | 375.00 | 350.00 | 400.00 | 362.50 | 387.50 | 375.00 | 375.20 | 375.40 |
| 400-470M (U1) | RX(MHz) | 435.15 | 400.15 | 469.85 | 417.55 | 452.55 | 435.00 | 435.20 | 435.40 |
| | TX(MHz) | 435.00 | 400.00 | 470.00 | 417.50 | 452.50 | 435.00 | 435.20 | 435.40 |
| 440-490M (U4) | RX(MHz) | 465.15 | 440.15 | 489.85 | 452.55 | 477.55 | 465.00 | 465.20 | 465.40 |
| | TX(MHz) | 465.00 | 440.00 | 490.00 | 452.50 | 477.50 | 465.00 | 465.20 | 465.40 |
| 480-526M (U3) | RX(MHz) | 503.15 | 480.15 | 525.85 | 491.75 | 515.25 | 503.00 | 503.20 | 503.40 |
| | TX(MHz) | 503.00 | 480.00 | 526.00 | 491.70 | 515.20 | 503.00 | 503.20 | 503.40 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 380-430M (U6) | RX(MHz) | 405.15 | 380.15 | 429.85 | 392.55 | 417.55 | 405.00 | 405.20 | 405.40 |
| | TX(MHz) | 405.00 | 380.00 | 430.00 | 392.50 | 417.50 | 405.00 | 405.20 | 405.40 |
| 450-520M (U7) | RX(MHz) | 485.15 | 450.15 | 519.85 | 467.55 | 502.55 | 485.00 | 485.20 | 485.40 |
| | TX(MHz) | 485.00 | 450.00 | 520.00 | 467.50 | 502.50 | 485.00 | 485.20 | 485.40 |

# Circuit Description

## 1. Frequency Configuration

The receiver utilizes double conversion superheterodyne. The first IF is 49.95MHz and the second is 450KHz. The first local oscillator signal is supplied by PLL circuit. The second local oscillator signal (50.4MHz) is generated from the frequency tripling of TCXO (16.8MHz).

The PLL circuit also generates the frequencies needed in the transmitter (See Fig.2).

Frequency Range: VHF: 136 MHz - 174MHz

U1: 400 MHz - 470MHz U2: 450 MHz - 512MHz

U3: 480 MHz - 526MHz U4: 440 MHz - 490MHz

U5: 350 MHz - 400MHz U7: 450 MHz - 520MHz

## 2. Receiver Circuit

The receiver section configuration is shown as Fig. 1.

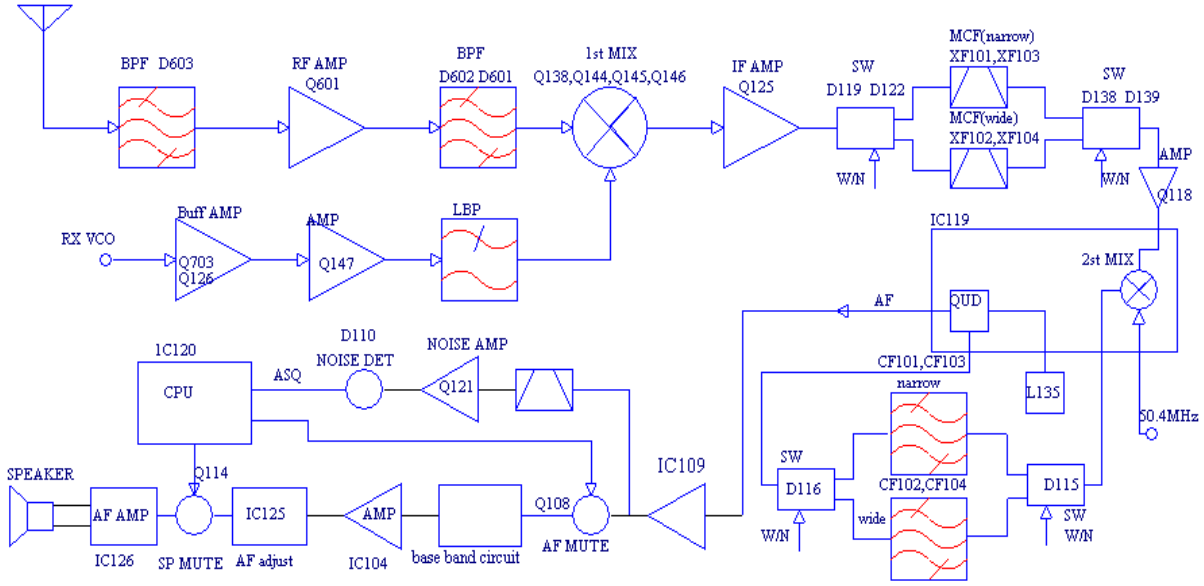



Figure 1-a VHF Receiver Section Configuration

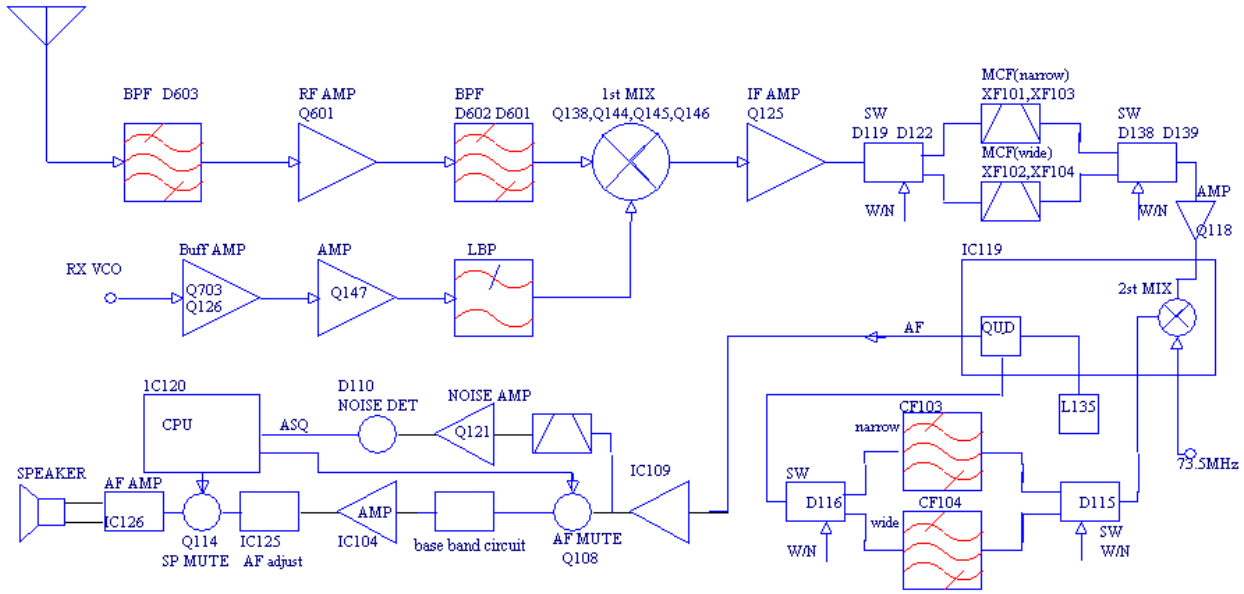



Figure 1-b UHF Receiver Section Configuration

## 2.1 RF AMP BPF

It consists of BPF (D603, D602, D601) and RF amplifier (Q601). The range of bandpass frequency is from 136MHz to 174MHz. The signal is filtered by the RF Amp BPF to eliminate unwanted signals before going to the first mixer.

## 2.2 The First Mixer

The signal from RF AMP BPF is mixed with the first local oscillator signal from PLL circuit in the double-balance mixer (Q138, Q144, Q145, Q146) to generate a 73.05MHz (UHF) / 49.95MHz (VHF) first IF signal. The first IF signal is then fed through two crystal filters (N: XF101, XF103; W: XF102, XF104) to further remove spurious signals.

## 2.3 IF Amplifier

The first IF signal is amplified by Q125, Q118 and then enters IC119 (TA31136FN). The signal is mixed with the second local oscillator signal (UHF: 73.5MHz; VHF: 50.4MHz) to create a 450KHz second IF signal. The second IF signal is then fed to a ceramic filter (N: CF103; W: CF104) to eliminate unwanted signals. The resulting signal is detected by IC119 and output from Pin9 as an AF signal.

## 2.4 AF Amplifier

The AF signal from IC119 is amplified by IC109 before being filtered. The resulting AF signal passes through Q108 (AF MUTE) and IC121 (electronic switch), then is amplified by IC106 (the received

signalling is inputted into CPU for decoding) and IC104. The amplified signal is fed to IC125 (volume control) and Q114 (SP MUTE) before entering AF AMP (IC126). The outputted AF signal is then delivered to the speaker through control panel.

### 2.5 Squelch

The AF signal from IC119 is amplified by IC109 again, then filtered to remove noise signals. The noise signal is amplified by Q121 and rectified by D110 to produce an ASQ level. The ASQ level is then compared in CPU (IC120) to generate a level which controls AF MUTE and SP MUTE. IC120 determines whether to output sounds from the speaker by controlling Q108, Q114.

## 3. Transmitter Circuit

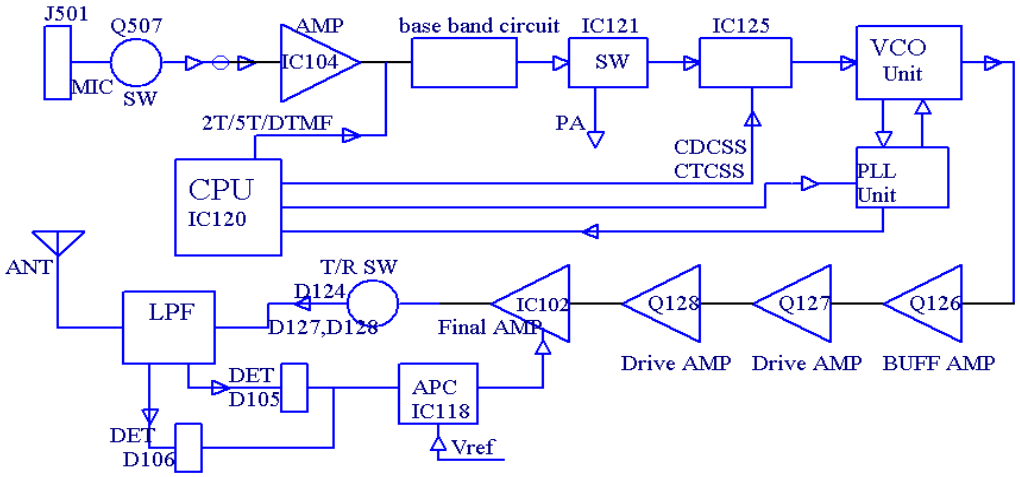



Figure 2 Transmitter Section Configuration

### 3.1 MIC Circuit and Modulation Circuit

The AF signal from MIC is amplified by IC104 after passing through the MIC control switch (Q507). The resulting signal is then amplified by IC106 and pre-emphasized, encoded. It is passed to IC121 (electronic switch) before reaching IC125. The signalling is inputted into IC125 and enters VCO for modulation.

### 3.2 Driver and Final Power Amplifier Circuit

TX-RF signal is outputted from Q703 in VCO circuit and amplified by Q126, Q127 and Q128. The amplified signal is then fed to IC102 (Power Module) and passes through LPF before reaching the antenna terminal.

### 3.3 APC

The APC is used to keep the power output at a constant preset value. D105 and D106 transform the signal from detector into DC voltage which is then compared with the reference voltage from CPU in IC118 and outputted as DC control voltage. The DC control voltage controls the output power by controlling the grid of IC102.

### 3.4 DI Balance Modulation Circuit

This circuit can realize perfect modulation of external data signal (DI), resulting in no distortion. Thus, the potential for further expansion is greatly enhanced.

### 3.5 TX Power Adjustment

In adjustment mode, users can use the programming software to adjust the Tx power in steps of 0.5W.

## 4. PLL Circuit

PLL circuit generates the first local oscillator signal for reception and the RF signal for transmission. PLL circuit consists of TX frequency oscillator (Q701), RX frequency oscillator (Q702), buffer amplifier (Q703), RF amplifier (Q124), PLL IC (IC801), LPF (Q804, Q805) and TX/RX VCO control switch (Q704, Q706).

In transmit mode, IC120 transmits the frequency data to PLL IC. Q704 is turned on to activate TX VCO. The outputted signal is amplified by Q703, Q124, and then divided by PLL IC into 2.5KHz, 5KHz or 6.25KHz signal. The divided signal is compared with 2.5KHz, 5KHz or 6.25KHz reference signal from 16.8MHz crystal oscillator (2.5 PPM frequency stability) in the phase comparator. The frequency control voltage outputted from the phase comparator is sent to TX VCO after passing through LPF (Q804, Q805). In the meantime, modulation signal (TX) is passed to TX VCO for frequency modulation.

The working principle in receive mode is similar to that in transmit mode.

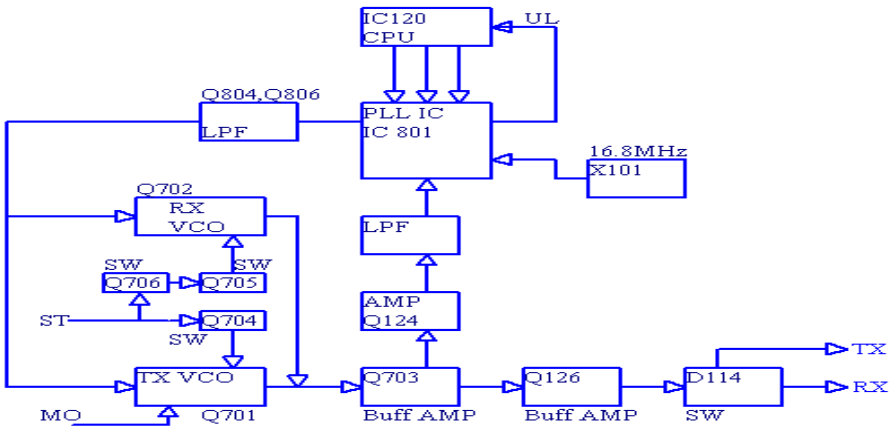



Figure 3 PLL Circuit

# 5. Control Circuit

Circuit in this section is comprised of CPU, reset IC, power supply controller and flash ROM.

## 5.1 CPU

IC120 (CPU) operates at 9.8304MHz. It controls the data transmission between receive circuit, transmit circuit, control circuit, display circuit and peripheral circuit.

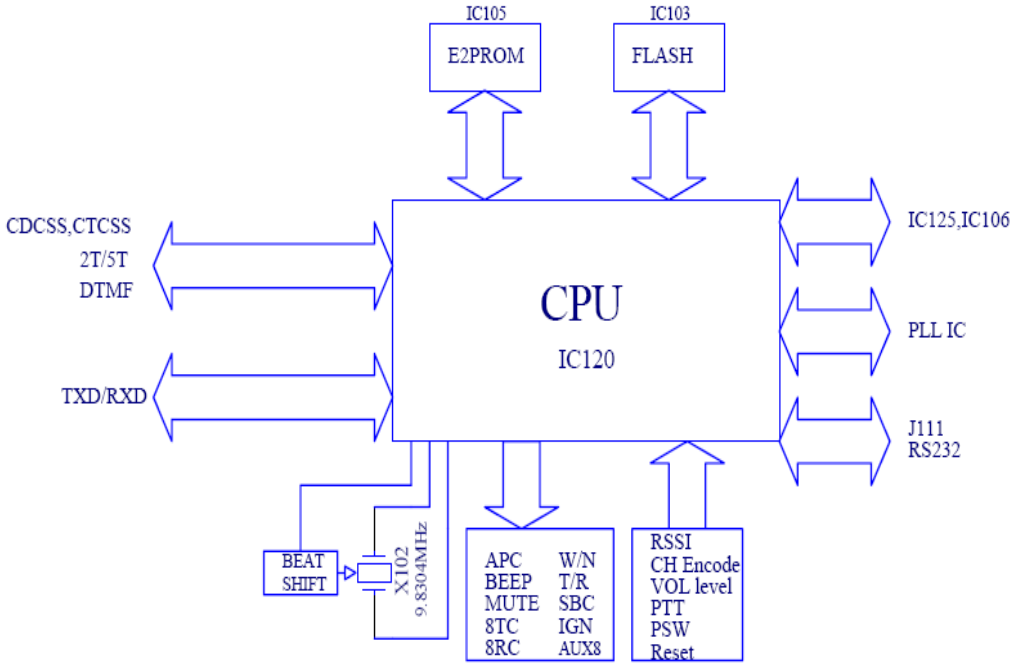



Figure 4 Control Circuit

## 5.2 Power Supply

Power supply of the radio is derived from the battery which supplies battery B+. D135 and D137 are over-voltage protection diodes. Power-on/off can be controlled by software.

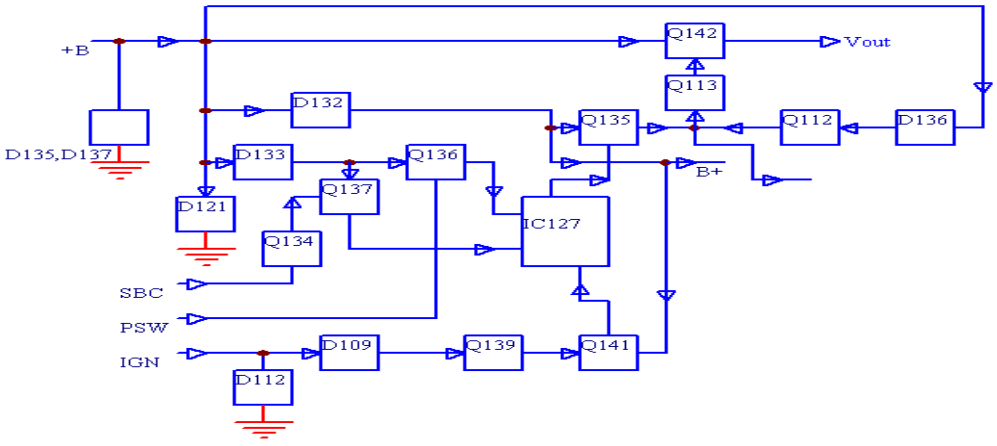



Figure 5 Power Switch Circuit

Vout provides power supply to IC115, IC114, IC113, and IC111, which produces 8V, 9V, 5V, and 3.3V voltage to the circuit.

### 5.3 Reset Circuit

The reset circuit (also called “Watchdog”) includes a reset IC (CN813LESA) and a peripheral circuit. When a breakdown occurs due to change in external voltage, the CPU would reboot your radio through reset IC automatically.

## 6. Display Circuit

Display circuit is comprised of CPU (IC503), LCD module, LED and other components. Radio features are programmable by PF1-PF6. Data is displayed on the 12-digit and 4-digit dot matrix LCD in alphanumeric form.

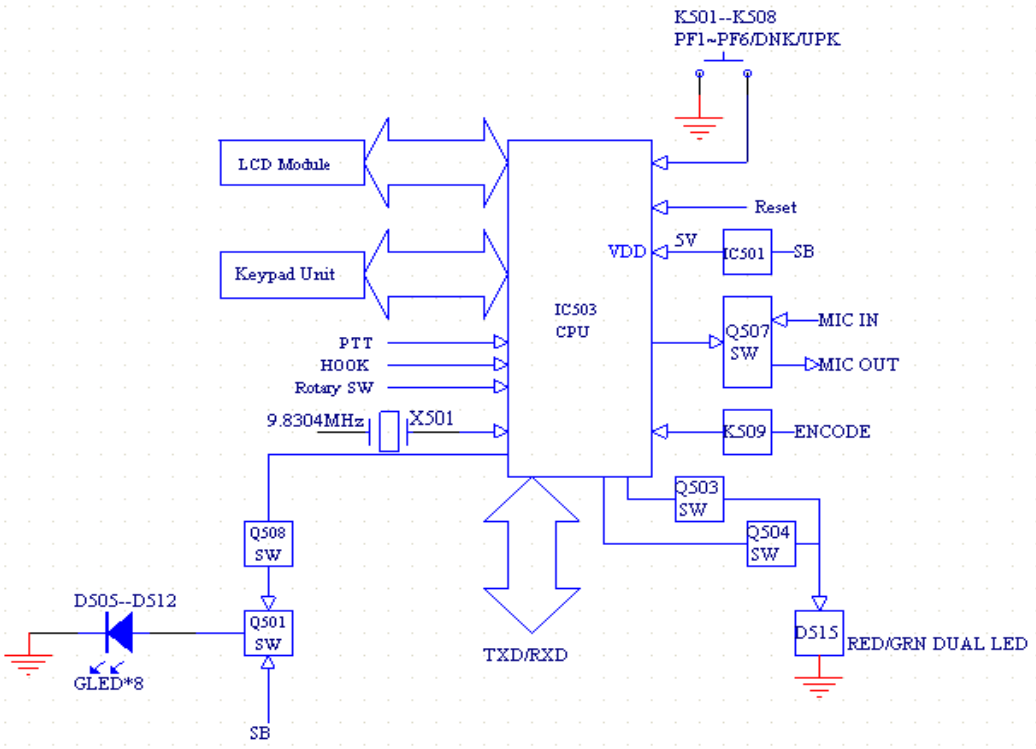



Figure 6 Display Circuit

# Semiconductor Data

1. Voltage Supply: TA7805F (Display Unit IC501): Providing supply voltage.
2. Voltage Detector: R3111H421C (Display Unit IC502)

2-1.Pin Function

| Pin No. | Name | I/O | Function |
|---|---|---|---|
| 1 | Vout | O | Reset. |
| 2 | GND | | GND. |
| 3 | Vin | I | Supply voltage. |

3. Display CPU: UPD78F0511GB (Display Unit IC503)

3-1.Pin Function

| Pin No. | Name | I/O | Function |
|---|---|---|---|
| 1 | P41 | | |
| 2 | P40 | O | SHIFT |
| 3 | RESET | | RESET |
| 4 | P124/XT2 | | |
| 5 | P123/XT1 | | |
| 6 | FLMD0 | | |
| 7 | P122/X2 | | |
| 8 | P121/X1 | | |
| 9 | REGC | | |
| 10 | $V_{SS}$ | | GND |
| 11 | $V_{DD}$ | | +5V |
| 12 | P60 | O | LCDCS/LED1 |
| 13 | P61 | I/O | LCDSOD/LED2 |
| 14 | P62 | O | LCDDAT/LED3 |
| 15 | P63 | O | LCDCLK/LED4 |
| 16 | P33 | I | RSW3/LEDA |
| 17 | P73 | I | PTT |
| 18 | P72 | I | DNKEY |

| | | | |
|---|---|---|---|
| 19 | P71 | I | UPKEY |
| 20 | P70 | O | KEYBL |
| 21 | P32 | I | RSW2/LEDB |
| 22 | P31 | I | RSW0(DN) |
| 23 | P30 | I | RSW1(UP) |
| 24 | P17 | O | LCDBL/LED0 |
| 25 | P16 | I/O | MICDAT |
| 26 | P15 | O | OUT1/LED5 |
| 27 | P14 | I | RXD1 |
| 28 | P13 | O | TXD1 |
| 29 | P12 | O | HMBL |
| 30 | P11 | I | HOOK/RXD0 |
| 31 | P10 | O | TXD0 |
| 32 | $AV_{REF}$ | | +5V |
| 33 | $AV_{SS}$ | | GND |
| 34 | P27 | I | IN1 |
| 35 | P26 | I | IN2 |
| 36 | P25 | I | PF6 |
| 37 | P24 | I | PF5 |
| 38 | P23 | I | PF4 |
| 39 | P22 | I | PF3 |
| 40 | P21 | I | PF2 |
| 41 | P20 | I | PF1 |
| 42 | P01 | O | RLED |
| 43 | P00 | O | GLED |
| 44 | P120 | O | MicMute |

4. Flash ROM: AT29C040-90TU (TX-RX Unit IC103)

4-1 Pin Function

| Pin No. | Name | I/O | Function |
|---|---|---|---|
| 1-6, 9-20, 31 | A18～A0 | I | Flash ROM address bus. |
| 7 | WR | I | Flash ROM write enable. |
| 8 | VCC | | +5V. |
| 21-23, 25-29 | D0～D7 | I/O | Flash ROM data bus. |
| 24 | VSS | | GND. |
| 30 | CE | I | Flash ROM chip enable. |
| 32 | OE | I | Flash ROM output enable. |

5. EEPROM: AT2408N12.5S (TX-RX Unit IC105)

5-1 Pin Function

| Pin No. | Name | I/O | Function |
|---|---|---|---|
| 1-3 | A0-A2 | I | Address inputs. |
| 4 | GND | | GND. |
| 5 | SDA | I/O | Serial Data. |
| 6 | SCL | O | Serial clock input. |
| 7 | TEST | | Test. |
| 8 | VCC | | +5V. |

6. Audio processor: AK2346 (TX-RX Unit IC106)

6-1 Pin Function

| Pin No. | Name | I/O | Function |
|---|---|---|---|
| 1 | AGNDIN | I | Analog ground input pin. |
| 2 | AGND | O | Analog ground output pin. |
| 3 | TXIN | I | Transmit audio signal input pin. |
| 4 | TXINO | O | TXA1 feedback output pin. |
| 5 | LIMLV | I | Limit level adjuster pin. |
| 6 | EXTLIMIN | I | External signal input pin pre-limiter circuit. |
| 7 | MOD | O | The modulated transmit signal output pin. |
| 8 | VSS | | GND. |
| 9 | TCLK | O | Clock output pin for MSK transmission data. |
| 10 | TDATA | I | MSK transmission data input pin.<br>Data are latched synchronizing with the TCLK rising edge. |
| 11 | DI/O | I/O | Serial data input and output pin.<br>Input for register setting data and output for MSK receive data. |
| 12 | RDF/FC | O | MSK signal received flag and frame detection signal output pin. |
| 13 | SCLK | I | Clock input pin for serial data I/O. |
| 14 | DIR | I | Serial data I/O control pin. |
| 15 | XOUT | I | Crystal oscillator connecting input pin. |
| 16 | XIN | I/O | Crystal oscillator connecting input and output pin. |
| 17 | VDD | | Positive power supply pin. |
| 18 | EXPOUT | O | Expander and VR4 output pin. |

| | | | |
|---|---|---|---|
| 19 | RXAFIN | I | Receive audio signal input pin. |
| 20 | RXAF | O | Receive audio signal output pin. |
| 21 | RXLPFO | O | Receive LPF output pin. |
| 22 | RXINO | O | RXA1 feedback output pin. |
| 23 | RXIN | I | Demodulated audio signal input pin. |
| 24 | TEST | I | Test register control input pin. |

7. DTMF Receiver: BU8872FS (TX-RX Unit IC122)

7-1 Pin Function

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1 | INPUT | I | Signal input. |
| 3 | OSCOUT | O | This is the output pin for internal oscillator. |
| 6 | OSCIN | I | This is the input pin for the internal oscillator. |
| 8 | GND | | GND |
| 9 | SD | O | The decoded DTMF signal is output. |
| 11 | ACK | I | Shifting out data from SD pin. |
| 14 | EST | O | A high level indicates the presence of a DTMF signal. |
| 16 | $V_{DD}$ | | +5V. |
| 2, 4, 5, 7, 10,12,13,15 | | | No connection |

8. D/A converter with buffer amplifier: M62364FP (TX-RX Unit IC125)

8-1 Pin Function

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1,4,9,12,13,16,21,24 | $V_{IN1}$～$V_{IN8}$ | I | D/A converter input. |
| 2,3,10,11,14,15,22,23 | $V_{OUT1}$～$V_{OUT8}$ | O | D/A converter output with 8-bit resolution. |
| 5 | $V_{DD}$ | | +5V. |
| 6 | LD | I | A low state enables data loading to shift register. |
| 7 | CLK | I | Shift clock input. |
| 8 | DI | I | Serial data input. |
| 17 | DO | O | Serial data output. |
| 18 | $V_{DAref}$ | I | D/A Converter reference voltage input. |
| 19 | RESET | I | Reset 8-bit latches. |
| 20 | GND | | GND. |

9. Power amplifier: TDA1554Q (TX-RX Unit IC126)

9-1 Pin Function

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1 | NINV1 | I | Non-inverting input 1. |
| 2 | INV1 | I | Inverting input 1. |
| 3 | GND | | Signal ground. |
| 4 | RR | | Supply voltage ripple rejection. |
| 5 | VP1 | | Positive supply voltage 1 |

| | | | |
|---|---|---|---|
| 6 | OUT1 | O | Output 1. |
| 7 | GND1 | | Power ground 1. |
| 8 | OUT2 | O | Output 2. |
| 9 | NC | | No connection. |
| 10 | OUT3 | O | Output 3. |
| 11 | GND2 | | Power ground 2. |
| 12 | OUT4 | O | Output 4. |
| 13 | VP2 | | Positive supply voltage 2. |
| 14 | M/SS | | Mute/stand-by switch |
| 15 | NC | | No connection. |
| 16 | INV2 | I | Inverting input 2. |
| 17 | NINV2 | I | Non-inverting input 2. |

10. Positive voltage regulator: XC62FP3502PR (TX-RX Unit IC111), TA7805F (TX-RX Unit IC113), TA78L09F (TX-RX Unit IC114), TA7808S (TX-RX Unit IC115).
11. Amplifier: NJM2904V (TX-RX Unit IC104), NJM2904M(TX-RX Unit IC110), TA75W558FU(TX-RX Unit IC107), TC75W51FU(TX-RX Unit IC108), NJM4558M(TX-RX Unit IC109), TA75S01F(TX-RX Unit IC116, TX-RX Unit IC117), TA75W01FU(TX-RX Unit IC118).
12. IF detector: TA31136FN (TX-RX Unit IC119).
13. Dual D-type Flip-flop: TC4013BF (TX-RX Unit IC127).
14. RF PLL Frequency Synthesizers: ADF4111 (TX-RX Unit IC801).
15. Reset IC: CN813LESA
16. CPU: M16C (Tx-Rx Unit IC120)

16-1 Pin Funcion

| PIN No. | PORT | PIN NAME | I/O | DESCRIPTION |
|---|---|---|---|---|
| 1 | P94/DA1 | 2TN/5TN | I | 2-tone/5-tone decode pulse input |
| 2 | P93/DA0 | DTMF | O | DTMF/2Tone/5Tone/BEEP output |
| 3 | P92 | SBC | O | SB power switch control. H: off L: on |
| 4 | P91 | AFDIO | I/O | AK2346 DATA I/O (SDAT) |
| 5 | P90 | AFSCLK | O | AK2346 serial clock (SCLK) |
| 6 | BYTE | BYTE | I | +5V(5C) |
| 7 | CNVSS | CNVSS | I | GND |
| 8 | P87 | PA | O | MIC PA switch control PA: H |
| 9 | P86 | DACSTB | O | DA conversion strobe output |
| 10 | RESET | RESET | I | Reset |
| 11 | XOUT | XOUT | O | Clock output |
| 12 | VSS | VSS | I | GND |
| 13 | XIN | XIN | I | Clock input |
| 14 | VCC | VCC | I | +5V |
| 15 | P85/NMI | NMI | I | NMI, usually not use |
| 16 | P84/INT2 | AFRDF | I | Bandpass MSK receive detect (RDF/FD) |
| 17 | P83/INT1 | DTMFSTD | I | DTMF decode detect Detect: H |

| | | | | |
|---|---|---|---|---|
| 18 | P82/INT0 | AUX2 | I/O | PCB AUX 2 (input) |
| 19 | P81/TA4in | AUX3 | I/O | AUX3 port (input) |
| 20 | P80/TA4out | AUX4 | I/O | AUX4 port (input) (output) |
| 21 | P77/TA3in | SPMUTE | O | SP Mute Mute: H |
| 22 | P76/TA3out | TO | O | CTCSS/CDCSS modulation output |
| 23 | P75/TA2in | EMICC | O | External MIC control External MIC: H |
| 24 | P74/TA2out | AFTDATA | O | Bandpass chip MSK serial data(TDATA) |
| 25 | P73/TA1in | AFTCLK | I | Bandpass chip MSK serial clock(TCLK) |
| 26 | P72/TA1out | AFDIR | O | Bandpass chip I/O control (DIR) |
| 27 | P71/RXD2 | RXD2 | I | Serial data input |
| 28 | P70/TXD2 | TXD2 | O | Serial data output |
| 29 | P67/TXD1 | TXD1 | O | Acc comm2 (serial data output) |
| 30 | P66/RXD1 | RXD1 | I | Acc comm2 (serial data input) |
| 31 | P65 | AUX5 | I/O | AUX5 port (output) |
| 32 | P64 | AUX6 | I/O | AUX6 port (output) |
| 33 | P63 | TXD0 | O | Acc comm1(serial data output) |
| 34 | P62 | RXD0 | I | Acc comm1(serial data input) |
| 35 | P61 | AUX7 | I/O | AUX7 port (output) |
| 36 | P60 | AUX1 | I/O | AUX1 port (input) |
| 37 | P57 | RDY | I | Pull Up |
| 38 | P56 | NC | O | NC (left floating) |
| 39 | P55 | HOLD | O | NC (left floating) |
| 40 | P54 | NC | O | NC (left floating) |
| 41 | P53 | NC | O | NC (left floating) |
| 42 | P52 | RD | O | Read (for expansion) |
| 43 | P51 | NC | O | NC (left floating) |
| 44 | P50 | WR | O | Write (for expansion) |
| 45 | P47 | HNC | O | Horn alert control On: H |
| 46 | P46 | SHIFT | O | Clock frequency shift On: H |
| 47 | P45 | W/N | O | W/N switch W: L |
| 48 | P44 | CS0 | O | Signal select (expansion chip) |
| 49 | A19 | A19 | O | NC |
| 50~59 | A18~A9 | A18~A9 | O | FLASHROM address bus |
| 60 | VCC | VCC | I | +5V |
| 61 | A8 | A8 | O | FLASHROM address bus |
| 62 | VSS | VSS | I | GND |
| 63~70 | A7~A0 | A7~A0 | O | FLASHROM address bus |
| 71 | P17 | 8RC | O | 8R power supply control RX: H |
| 72 | P16 | 8TC | O | 8T power supply control TX: H |
| 73 | P15 | RX | O | TX/RX VCO switch RX: L |
| 74 | P14 | EEPDAT | I/O | EEPROM data input/output |

| | | | | | |
|---|---|---|---|---|---|
| 75 | P13 | EEPCLK | O | EEPROM clock output | |
| | | DACLK | O | DA clock output | |
| 76 | P12 | PLLUL | I | PLL unlock detect | Unlock: L |
| 77 | P11 | PLLSTB | O | PLL strobe output | Lock: L |
| 78 | P10 | AFMUTE | O | AF Mute (RX) | Mute: H |
| 79~86 | D7~ D0 | D7~ D0 | | FLASHROM address bus | |
| 87 | P10 | PWR | I | [PWR] key input | On: L |
| 88 | P10 | IGN | I | Ignition sense input | H: off L: on |
| 89 | P10 | PLLDAT | O | PLL data output | |
| | | DADAT | O | DA data output | |
| 90 | P10 | PLLCLK | O | PLL clock output | |
| 91 | AN3 | TEMP | I | Temperature input | |
| 92 | AN2 | RSSQL | I | RSSI input | |
| 93 | AN1 | ANLSQL | I | SQL input (analogue) | |
| 94 | AVss | AVss | I | GND | |
| 95 | AN0 | TI | I | CTCSS/CDCSS signal input | |
| 96 | VREF | VREF | I | Reference voltage input | |
| 97 | AVCC | AVCC | I | GND | |
| 98 | P97/Sin4 | AUX8 | O | WDI, Reset IC Input | |
| 99 | P96/Sout4 | DTMFCLK | O | DTMF chip decode clock output | |
| 100 | P95/Clk4 | DTMFDAT | I | DTMF chip decode clock input | |

# Component Description

**1. TX-RX Unit**

| Ref. No. | Part Name | Type | Description |
|---|---|---|---|
| IC102 | IC | Power module | Power module |
| IC103 | IC | AT29C040A-90TU | Flash ROM |
| IC104 | IC | NJM2904V | Single-supply dual operational amplifier |
| IC105 | IC | AT24C64AN-10SU-2.7 | EEPROM |
| IC106 | IC | AK2346 | Audio processor |
| IC107 | IC | TA75W558FU | Dual operational amplifier |
| IC108 | IC | TC75W51FU | Dual operational amplifier |
| IC109 | IC | NJM4558M | Dual operational amplifier |
| IC110 | IC | NJM2904M | Single-supply dual operational amplifier |
| IC111 | IC | XC62FP3502PR | Positive voltage regulator |
| IC113 | IC | TA7805F | Positive voltage regulator |
| IC114 | IC | TA78L09F | Positive voltage regulator |
| IC115 | IC | TA7808S | Positive voltage regulator |
| IC116 | IC | TA75S01F | Single operational amplifier |
| IC117 | IC | TA75S01F | Single operational amplifier |
| IC118 | IC | TA75W01FU | Dual operational amplifier |
| IC119 | IC | TA31136FN | IF detector |
| IC120 | IC | M16C | CPU |
| IC121 | IC | BU4066BCFV | Quad analog switch |
| IC122 | IC | BU8872FS | DTMF Receiver |
| IC125 | IC | M62364FP | D/A converter with buffer amplifiers |
| IC126 | IC | TDA1554Q | Power amplifier |
| IC127 | IC | TC4013BF | Dual D-type Flip-flop |
| IC129 | IC | CN813LESA | Reset IC |
| IC130 | IC | NJM2904V | Single-supply dual operational amplifier |

**2. DISPLAY UNIT**

| Ref. No. | Part Name | Type | Description |
|---|---|---|---|
| IC501 | IC | TA7805F | Voltage supply. |
| IC 502 | IC | R3111H421C | Voltage detector. |
| IC 503 | IC | UPD78F0511GB | Display CPU. |

# TM-800 Parts List 1

| TM-800 UHF(400-470MHz) Parts List 1 | | | | | |
|---|---|---|---|---|---|
| No. | Material No. | Description | Qty. | Ref No. | Print No. |
| 1 | 3001050000000 | Chip resistor 0402 0Ω J 1/16W(RoHS) | 1 | R252 | B9M |
| 2 | 3001050000000 | Chip resistor 0402 0Ω J 1/16W(RoHS) | 1 | R260 | B8M |
| 3 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R116 | B5E |
| 4 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R172 | B5E |
| 5 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R182 | B9H |
| 6 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R184 | B8H |
| 7 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R193 | T8E |
| 8 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R210 | T6F |
| 9 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R211 | B4K |
| 10 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R218 | T6E |
| 11 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R254 | B7C |
| 12 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R281 | B9K |
| 13 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R290 | T6E |
| 14 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R312 | B8E |
| 15 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R317 | B7J |
| 16 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R318 | B7J |
| 17 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R324 | B6J |
| 18 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R334 | B7G |
| 19 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R335 | B7J |
| 20 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R340 | B5J |
| 21 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R364 | B3L |
| 22 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R375 | B7L |
| 23 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R383 | B3L |
| 24 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R385 | B3K |
| 25 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R386 | B3K |
| 26 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R389 | B10H |
| 27 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R390 | T5D |
| 28 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R401 | T3C |
| 29 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R402 | T3C |
| 30 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R403 | B2L |
| 31 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R404 | B2L |
| 32 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R405 | T6D |
| 33 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R406 | T10B |
| 34 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R407 | T8C |
| 35 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R423 | T7D |
| 36 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R424 | T7D |
| 37 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R427 | T4C |
| 38 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R428 | T4C |
| 39 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R431 | T7E |
| 40 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R434 | T7D |
| 41 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R443 | T9E |
| 42 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R446 | B6K |
| 43 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R447 | B6K |
| 44 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R451 | B6K |
| 45 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R470 | T8D |
| 46 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R471 | T8D |
| 47 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R473 | T7D |
| 48 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R474 | T7E |

| | | | | | |
|---|---|---|---|---|---|
| 49 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R475 | T7E |
| 50 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R476 | T7E |
| 51 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R477 | T7E |
| 52 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R478 | T8E |
| 53 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R479 | T8E |
| 54 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R480 | T8E |
| 55 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R481 | T8D |
| 56 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R482 | T8E |
| 57 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R483 | T8D |
| 58 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R484 | T8D |
| 59 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R485 | T8D |
| 60 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R496 | T8D |
| 61 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R497 | T7E |
| 62 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R501 | T10G |
| 63 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R504 | T7D |
| 64 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R506 | T7D |
| 65 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R508 | B9K |
| 66 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R603 | T7M |
| 67 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R609 | T7M |
| 68 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R817 | T9H |
| 69 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R821 | T9I |
| 70 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R823 | B8H |
| 71 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R112 | T8G |
| 72 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R113 | T8G |
| 73 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R114 | T8G |
| 74 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R265 | T9L |
| 75 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R266 | T9L |
| 76 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R267 | T9L |
| 77 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R268 | T9L |
| 78 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R440 | T8C |
| 79 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R811 | T8G |
| 80 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R812 | T8G |
| 81 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R813 | T8G |
| 82 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R140 | B8F |
| 83 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R168 | B4E |
| 84 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R229 | T6I |
| 85 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R236 | T6H |
| 86 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R262 | T9K |
| 87 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R264 | T9K |
| 88 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R509 | T7C |
| 89 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R133 | B7D |
| 90 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R144 | B8E |
| 91 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R146 | B5F |
| 92 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R166 | T4H |
| 93 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R171 | T7L |
| 94 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R177 | B2L |
| 95 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R178 | B3M |
| 96 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R181 | B9L |
| 97 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R212 | T10M |
| 98 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R232 | B6F |
| 99 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R233 | B5H |
| 100 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R234 | T6H |

| | | | | | |
|---|---|---|---|---|---|
| 101 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R256 | B7C |
| 102 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R273 | B9K |
| 103 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R288 | T8C |
| 104 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R315 | B8E |
| 105 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R328 | B7K |
| 106 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R344 | T5E |
| 107 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R349 | B7I |
| 108 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R350 | B6F |
| 109 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R361 | B3K |
| 110 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R507 | B9K |
| 111 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R819 | T9H |
| 112 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R820 | T9H |
| 113 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R117 | T5D |
| 114 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R118 | B9H |
| 115 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R119 | T5D |
| 116 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R126 | T6H |
| 117 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R131 | B4E |
| 118 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R135 | B9F |
| 119 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R139 | B8F |
| 120 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R176 | B3L |
| 121 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R196 | T8A |
| 122 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R199 | T8A |
| 123 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R200 | T6G |
| 124 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R205 | T8B |
| 125 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R213 | T9K |
| 126 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R214 | T9K |
| 127 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R240 | T6H |
| 128 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R261 | T9L |
| 129 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R285 | B8K |
| 130 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R286 | B8J |
| 131 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R287 | T8C |
| 132 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R291 | T9A |
| 133 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R326 | B6G |
| 134 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R356 | B3M |
| 135 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R371 | T8C |
| 136 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R380 | B5M |
| 137 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R392 | T8H |
| 138 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R605 | T7N |
| 139 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R806 | B8H |
| 140 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R807 | B7H |
| 141 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R808 | T8G |
| 142 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R104 | T7F |
| 143 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R108 | B8I |
| 144 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R127 | B5D |
| 145 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R129 | B5E |
| 146 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R179 | B2M |
| 147 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R187 | T6D |
| 148 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R188 | T7E |
| 149 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R203 | T8B |
| 150 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R215 | T8D |
| 151 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R277 | B7K |
| 152 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R304 | T7C |

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| 153 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R321 | T6D |
| 154 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R325 | B6J |
| 155 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R346 | B7I |
| 156 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R352 | B6I |
| 157 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R365 | B3L |
| 158 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R366 | B3K |
| 159 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R372 | T8B |
| 160 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R374 | T7C |
| 161 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R472 | T8D |
| 162 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R802 | B8H |
| 163 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R803 | B8H |
| 164 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R294 | T8C |
| 165 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R301 | T10B |
| 166 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R601 | T6M |
| 167 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R607 | T8M |
| 168 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R608 | T9M |
| 169 | 3001061220000 | Chip resistor 0603 1.2KΩ J 1/10(RoHS) | 1 | R343 | T5E |
| 170 | 3001061220000 | Chip resistor 0603 1.2KΩ J 1/10(RoHS) | 1 | R810 | T9I |
| 171 | 3001061230000 | Chip resistor 0603 12KΩ J 1/10W(RoHS) | 1 | R298 | T8C |
| 172 | 3001061510000 | Chip resistor 0603 150Ω J 1/10W(RoHS) | 1 | R130 | T8I |
| 173 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R123 | B8I |
| 174 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R124 | T10J |
| 175 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R165 | B9K |
| 176 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R341 | B9K |
| 177 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R342 | B5J |
| 178 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R128 | B4E |
| 179 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R201 | T6F |
| 180 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R329 | B6F |
| 181 | 3001061540000 | Chip resistor 0603 150KΩ J 1/10W(RoHS) | 1 | R216 | T6D |
| 182 | 3001061540000 | Chip resistor 0603 150KΩ J 1/10W(RoHS) | 1 | R292 | T8C |
| 183 | 3001061540000 | Chip resistor 0603 150KΩ J 1/10W(RoHS) | 1 | R369 | T8C |
| 184 | 3001061800000 | Chip resistor 0603 18Ω J 1/10W(RoHS) | 1 | R147 | B7E |
| 185 | 3001061800000 | Chip resistor 0603 18Ω J 1/10W(RoHS) | 1 | R151 | B5G |
| 186 | 3001061800000 | Chip resistor 0603 18Ω J 1/10W(RoHS) | 1 | R152 | B9D |
| 187 | 3001061800000 | Chip resistor 0603 18Ω J 1/10W(RoHS) | 1 | R228 | T8I |
| 188 | 3001061820000 | Chip resistor 0603 1.8KΩ J 1/10W(RoHS) | 1 | R338 | B7F |
| 189 | 3001061830010 | Chip resistor 0603 18KΩ J 1/10W(RoHS) | 1 | R217 | T6D |
| 190 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R207 | T7F |
| 191 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R208 | T6F |
| 192 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R331 | B6G |
| 193 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R448 | B6K |
| 194 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R455 | B6K |
| 195 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R109 | B9H |
| 196 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R154 | B5H |
| 197 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R316 | B8E |
| 198 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R142 | B8F |
| 199 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R149 | B5G |
| 200 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R309 | T9K |
| 201 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R310 | T9L |
| 202 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R355 | B6H |
| 203 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R388 | B6I |
| 204 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R809 | T9H |

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| 205 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R143 | T8I |
| 206 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R153 | B5H |
| 207 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R238 | T6J |
| 208 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R239 | B6E |
| 209 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R242 | B7E |
| 210 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R248 | T7L |
| 211 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R249 | B6C |
| 212 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R250 | T6L |
| 213 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R258 | B7C |
| 214 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R174 | B3A |
| 215 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R175 | B3A |
| 216 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R204 | T6E |
| 217 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R209 | T6F |
| 218 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R220 | B6H |
| 219 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R226 | B6I |
| 220 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R231 | T6I |
| 221 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R259 | T6E |
| 222 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R278 | B9J |
| 223 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R283 | B9J |
| 224 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R302 | T7C |
| 225 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R306 | B7M |
| 226 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R339 | B7H |
| 227 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R353 | B6I |
| 228 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R110 | B9H |
| 229 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R159 | B5E |
| 230 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R319 | T8C |
| 231 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R801 | B7H |
| 232 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R145 | B7E |
| 233 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R148 | B7E |
| 234 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R241 | B9D |
| 235 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R243 | B9D |
| 236 | 3001062720000 | Chip resistor 0603 2.7KΩ J 1/10W(RoHS) | 1 | R604 | T7N |
| 237 | 3001062720000 | Chip resistor 0603 2.7KΩ J 1/10W(RoHS) | 1 | R804 | T9H |
| 238 | 3001062720000 | Chip resistor 0603 2.7KΩ J 1/10W(RoHS) | 1 | R805 | T9G |
| 239 | 3001062740010 | Chip resistor 0603 270KΩ J 1/10W(RoHS) | 1 | R347 | B7I |
| 240 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R137 | T8H |
| 241 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R314 | B8E |
| 242 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R141 | B8F |
| 243 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R156 | B5H |
| 244 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R606 | T7M |
| 245 | 3001063320000 | Chip resistor 0603 3.3KΩ J 1/10W(RoHS) | 1 | R169 | B8E |
| 246 | 3001063320000 | Chip resistor 0603 3.3KΩ J 1/10W(RoHS) | 1 | R311 | B8E |
| 247 | 3001063320000 | Chip resistor 0603 3.3KΩ J 1/10W(RoHS) | 1 | R330 | B6K |
| 248 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R138 | B8F |
| 249 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R164 | B7K |
| 250 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R183 | T9D |
| 251 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R186 | T6D |
| 252 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R305 | B6M |
| 253 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R357 | B3L |
| 254 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R367 | B2L |
| 255 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R417 | B7M |
| 256 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R452 | B6K |

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| 257 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R173 | B4E |
| 258 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R197 | T8A |
| 259 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R327 | B7J |
| 260 | 3001063920000 | Chip resistor 0603 3.9KΩ J 1/10W(RoHS) | 1 | R225 | B7G |
| 261 | 3001063920000 | Chip resistor 0603 3.9KΩ J 1/10W(RoHS) | 1 | R602 | T7M |
| 262 | 3001063940010 | Chip resistor 0603 390KΩ J 1/10W(RoHS) | 1 | R103 | T7F |
| 263 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R136 | T8I |
| 264 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R167 | T7L |
| 265 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R253 | B6C |
| 266 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R257 | B7D |
| 267 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R150 | B5G |
| 268 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R155 | B5H |
| 269 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R358 | B3L |
| 270 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R121 | T10C |
| 271 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R122 | T10C |
| 272 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R125 | T10B |
| 273 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R134 | T8I |
| 274 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R192 | B9J |
| 275 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R230 | B6F |
| 276 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R282 | B8J |
| 277 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R284 | B8K |
| 278 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R337 | B7F |
| 279 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R351 | B5K |
| 280 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R373 | T8C |
| 281 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R376 | B5L |
| 282 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R444 | T5D |
| 283 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | C278 | T6C |
| 284 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R105 | B4L |
| 285 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R120 | B9J |
| 286 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R180 | B9L |
| 287 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R190 | T6E |
| 288 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R191 | B7K |
| 289 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R194 | T6E |
| 290 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R198 | T9A |
| 291 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R221 | B5D |
| 292 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R235 | B6F |
| 293 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R237 | T6H |
| 294 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R251 | B5D |
| 295 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R271 | B2K |
| 296 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R272 | B7K |
| 297 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R274 | B8K |
| 298 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R279 | B8J |
| 299 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R280 | B8K |
| 300 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R300 | T6C |
| 301 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R320 | T6D |
| 302 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R332 | B7F |
| 303 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R345 | B5J |
| 304 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R348 | B5K |
| 305 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R360 | T3D |
| 306 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R362 | B2K |
| 307 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R363 | B3L |
| 308 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R377 | B5K |

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| 309 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R387 | B2K |
| 310 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R409 | B10J |
| 311 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R410 | B10K |
| 312 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R411 | B10K |
| 313 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R491 | B8K |
| 314 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R500 | T7C |
| 315 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R611 | T10C |
| 316 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R816 | T8I |
| 317 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R106 | B8I |
| 318 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R111 | B9H |
| 319 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R185 | T7D |
| 320 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R297 | T6E |
| 321 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R336 | B6F |
| 322 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R381 | B5M |
| 323 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R382 | B5M |
| 324 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R818 | T9H |
| 325 | 3001065120000 | Chip resistor 0603 5.1KΩ J 1/10W(RoHS) | 1 | R490 | B8K |
| 326 | 3001065130010 | Chip resistor 0603 51KΩ J 1/10W(RoHS) | 1 | R195 | T8A |
| 327 | 3001065600000 | Chip resistor 0603 56Ω J 1/10W(RoHS) | 1 | R223 | T8H |
| 328 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R206 | T8C |
| 329 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R303 | T9C |
| 330 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R454 | B6K |
| 331 | 3001065690000 | Chip resistor 0603 5.6Ω J 1/10W(RoHS) | 1 | R275 | B7C |
| 332 | 3001066230010 | Chip resistor 0603 62KΩ J 1/10W(RoHS) | 1 | R189 | T6E |
| 333 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R219 | T6H |
| 334 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R222 | B6G |
| 335 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R224 | B6I |
| 336 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R227 | T6F |
| 337 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R255 | B7C |
| 338 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R101 | T7E |
| 339 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R295 | T7C |
| 340 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R322 | B6J |
| 341 | 3001068210010 | Chip resistor 0603 820Ω J 1/10W(RoHS) | 1 | R307 | B7C |
| 342 | 3001068210010 | Chip resistor 0603 820Ω J 1/10W(RoHS) | 1 | R308 | B7C |
| 343 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R289 | T6D |
| 344 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R370 | T8C |
| 345 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R400 | T5D |
| 346 | 3001068230010 | Chip resistor 0603 82KΩ J 1/10W(RoHS) | 1 | R102 | T6F |
| 347 | 3001069120000 | Chip resistor 0603 9.1KΩ J 1/10W(RoHS) | 1 | R202 | T8B |
| 348 | 3001071800000 | Chip resistor 0805 18Ω J 1/8W(RoHS) | 1 | R157 | B5H |
| 349 | 3001075690000 | Chip resistor 0805 5.6Ω J 1/8W(RoHS) | 1 | R161 | B3I |
| 350 | 3001078210000 | Chip resistor 0805 820Ω J 1/8W(RoHS) | 1 | R160 | B3I |
| 351 | 3001078210000 | Chip resistor 0805 820Ω J 1/8W(RoHS) | 1 | R163 | B3I |
| 352 | 3001161210000 | Chip resistor 2010 120Ω J 1/2W(RoHS) | 1 | R170 | B5D |
| 353 | 3001162200000 | Chip resistor 2010 22Ω J 1/2W(RoHS) | 1 | R158 | T5F |
| 354 | 3001164720000 | Chip resistor 2010 4.7KΩ J 1/2W(RoHS) | 1 | R359 | T4D |
| 355 | 3003061040000 | Thermistor NCP18WF104J03RB(RoHS) | 1 | TH101 | T5M |
| 356 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP103 | B9M |
| 357 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP105 | B9L |
| 358 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP109 | B8M |
| 359 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP111 | B8M |
| 360 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP112 | B9M |

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| 361 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP113 | B8M |
| 362 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP114 | B9M |
| 363 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP116 | B8M |
| 364 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP117 | B9M |
| 365 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP118 | B9M |
| 366 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP119 | B7L |
| 367 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP120 | B7L |
| 368 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP121 | B7L |
| 369 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP122 | B7L |
| 370 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP101 | B9K |
| 371 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP102 | B8K |
| 372 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP104 | B9L |
| 373 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP106 | B9L |
| 374 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP107 | B9L |
| 375 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP108 | B9L |
| 376 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP110 | B9K |
| 377 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP126 | B7L |
| 378 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP127 | B7L |
| 379 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP128 | B7K |
| 380 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP129 | B9K |
| 381 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP130 | B8K |
| 382 | 3008162720000 | Thin-film chip resistor 2010 2.7K 1/2W(RoHS) | 1 | R814 | B9G |
| 383 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C136 | B9E |
| 384 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C137 | B9E |
| 385 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C607 | T6M |
| 386 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C611 | T8M |
| 387 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C615 | T8M |
| 388 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C618 | T9M |
| 389 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C621 | T9M |
| 390 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C625 | T9M |
| 391 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C626 | T8M |
| 392 | 3101060100010 | Chip capacitor 0603 1PF B 50V(RoHS) | 1 | C627 | T6M |
| 393 | 3101060200010 | Chip capacitor 0603 2PF B 50V(RoHS) | 1 | C127 | B8F |
| 394 | 3101060200010 | Chip capacitor 0603 2PF B 50V(RoHS) | 1 | C130 | B7F |
| 395 | 3101060200010 | Chip capacitor 0603 2PF B 50V(RoHS) | 1 | C178 | T3N |
| 396 | 3101060300010 | Chip capacitor 0603 3PF B 50V(RoHS) | 1 | C119 | T8H |
| 397 | 3101060300010 | Chip capacitor 0603 3PF B 50V(RoHS) | 1 | C120 | T8H |
| 398 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C244 | B7D |
| 399 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C245 | B6D |
| 400 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C247 | B4I |
| 401 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C248 | B6D |
| 402 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C249 | B7C |
| 403 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C629 | T6N |
| 404 | 3101060500010 | Chip capacitor 0603 5PF B 50V(RoHS) | 1 | C223 | T8H |
| 405 | 3101060500010 | Chip capacitor 0603 5PF B 50V(RoHS) | 1 | C226 | T8H |
| 406 | 3101060500010 | Chip capacitor 0603 5PF B 50V(RoHS) | 1 | C4 | B4I |
| 407 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C171 | T3M |
| 408 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C172 | T3M |
| 409 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C179 | T3M |
| 410 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C602 | T6M |
| 411 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C606 | T6M |
| 412 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C614 | T8M |

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| 413 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C620 | T9M |
| 414 | 3101060600010 | Chip capacitor GRM1885C1H6R0B201(RoHS) | 1 | C240 | B8E |
| 415 | 3101060700020 | Chip capacitor 0603 7PF B 50V(RoHS) | 1 | C246 | B5I |
| 416 | 3101060800010 | Chip capacitor 0603 8PF B 50V(RoHS) | 1 | C145 | B4H |
| 417 | 3101060800010 | Chip capacitor 0603 8PF B 50V(RoHS) | 1 | C255 | B7C |
| 418 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C110 | B9H |
| 419 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C124 | T8H |
| 420 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C135 | B9E |
| 421 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C224 | T8H |
| 422 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C239 | B6F |
| 423 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | R132 | T8H |
| 424 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C106 | B2L |
| 425 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C109 | B7E |
| 426 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C147 | B5H |
| 427 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C203 | B1L |
| 428 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C205 | B10F |
| 429 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C206 | B10F |
| 430 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C207 | T5C |
| 431 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C208 | T5C |
| 432 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C303 | B7E |
| 433 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C388 | T6I |
| 434 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C446 | T7E |
| 435 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C448 | T7E |
| 436 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C628 | T7N |
| 437 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C102 | B9M |
| 438 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C107 | B1K |
| 439 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C111 | T6H |
| 440 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C113 | T8G |
| 441 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C116 | T8G |
| 442 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C118 | T8G |
| 443 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C128 | B8F |
| 444 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C129 | B8F |
| 445 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C131 | B8F |
| 446 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C163 | T5M |
| 447 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C182 | T9D |
| 448 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C184 | B7K |
| 449 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C211 | B2L |
| 450 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C212 | B1L |
| 451 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C213 | B1L |
| 452 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C214 | B2L |
| 453 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C231 | B9F |
| 454 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C232 | B8F |
| 455 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C238 | B8E |
| 456 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C275 | T9C |
| 457 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C284 | T6C |
| 458 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C287 | T6C |
| 459 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C288 | T7C |
| 460 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C291 | B1K |
| 461 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C292 | B1L |
| 462 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C293 | B1L |
| 463 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C294 | B1K |
| 464 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C295 | B1L |

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| 465 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C296 | B1L |
| 466 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C300 | B10G |
| 467 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C302 | B10G |
| 468 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C314 | B6J |
| 469 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C317 | B7J |
| 470 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C323 | B5K |
| 471 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C324 | B6F |
| 472 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C325 | B6I |
| 473 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C327 | B9I |
| 474 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C331 | B9I |
| 475 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C342 | B3K |
| 476 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C346 | T8B |
| 477 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C360 | B6F |
| 478 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C365 | B6M |
| 479 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C367 | B1N |
| 480 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C368 | B1M |
| 481 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C411 | T4D |
| 482 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C426 | T9D |
| 483 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C427 | T9E |
| 484 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C428 | B10J |
| 485 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C429 | B10J |
| 486 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C430 | B10J |
| 487 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C431 | T10E |
| 488 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C432 | B10J |
| 489 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C440 | T8D |
| 490 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C441 | T8D |
| 491 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C442 | T8D |
| 492 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C443 | T7D |
| 493 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C445 | T7D |
| 494 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C447 | T7E |
| 495 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C449 | T7E |
| 496 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C450 | T8E |
| 497 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C451 | T9E |
| 498 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C452 | T9E |
| 499 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C453 | T9E |
| 500 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C454 | T8D |
| 501 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C455 | T9E |
| 502 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C456 | T8D |
| 503 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C457 | T9D |
| 504 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C458 | T8D |
| 505 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C459 | T8D |
| 506 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C801 | B8H |
| 507 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C812 | T9G |
| 508 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C112 | B9I |
| 509 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C114 | B8H |
| 510 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C115 | B8I |
| 511 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C166 | B5D |
| 512 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C167 | B5C |
| 513 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C187 | B9J |
| 514 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C193 | T6F |
| 515 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C220 | B4E |
| 516 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C222 | B7C |

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| 517 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C236 | T6I |
| 518 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C241 | B6F |
| 519 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C242 | T6H |
| 520 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C243 | B6F |
| 521 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C250 | B6C |
| 522 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C252 | B6C |
| 523 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C257 | B7C |
| 524 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C258 | T8K |
| 525 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C260 | T9K |
| 526 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C261 | T9L |
| 527 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C269 | B8K |
| 528 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C297 | B4K |
| 529 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C309 | B7C |
| 530 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C310 | B7E |
| 531 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C318 | B6G |
| 532 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C322 | T4G |
| 533 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C326 | T4B |
| 534 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C330 | B6E |
| 535 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C332 | T7L |
| 536 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C338 | B6C |
| 537 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C344 | T8C |
| 538 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C347 | T8C |
| 539 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C377 | B2M |
| 540 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C156 | T4H |
| 541 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C161 | T4J |
| 542 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C164 | T3J |
| 543 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C185 | T6E |
| 544 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C188 | T6E |
| 545 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C197 | T9B |
| 546 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C202 | T7E |
| 547 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C215 | T8F |
| 548 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C216 | B8I |
| 549 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C233 | T6H |
| 550 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C234 | T6G |
| 551 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C235 | T7I |
| 552 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C262 | T8K |
| 553 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C267 | B6K |
| 554 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C277 | T7C |
| 555 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C279 | T6E |
| 556 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C280 | T6C |
| 557 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C289 | B7M |
| 558 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C329 | T4B |
| 559 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C333 | B4M |
| 560 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C339 | B2K |
| 561 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C340 | B4L |
| 562 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C343 | B8J |
| 563 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C345 | T8C |
| 564 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C348 | T7C |
| 565 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C351 | B7M |
| 566 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C363 | B5L |
| 567 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C394 | T6E |
| 568 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C425 | T9C |

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| 569 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C466 | T7C |
| 570 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C469 | T7D |
| 571 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C471 | B3L |
| 572 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C472 | B3L |
| 573 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C474 | B6K |
| 574 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C624 | T7M |
| 575 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C101 | B10N |
| 576 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C219 | B6I |
| 577 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C230 | B6I |
| 578 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C341 | B6H |
| 579 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C361 | B6H |
| 580 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C434 | T7C |
| 581 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C438 | T5D |
| 582 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C464 | B7K |
| 583 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C465 | B5K |
| 584 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C473 | T8D |
| 585 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C475 | T7E |
| 586 | 3101061050020 | Chip capacitor 0603 1UF K 25V(RoHS) | 1 | C281 | T6C |
| 587 | 3101061050020 | Chip capacitor 0603 1UF K 25V(RoHS) | 1 | C362 | B5K |
| 588 | 3101061200000 | Chip capacitor 0603 12PF J 50V(RoHS) | 1 | C140 | B9E |
| 589 | 3101061230000 | Chip capacitor 0603 0.012UF K 25V(RoHS) | 1 | C199 | T7F |
| 590 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C132 | B9D |
| 591 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C134 | B4F |
| 592 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C198 | T8B |
| 593 | 3101061530000 | Chip capacitor 0603 0.015UF K 50V(RoHS) | 1 | C276 | T6E |
| 594 | 3101061540000 | Chip capacitor 0603 0.15UF K 25V(RoHS) | 1 | C189 | T8A |
| 595 | 3101061830000 | Chip capacitor 0603 0.018UF K 25V(RoHS) | 1 | C268 | B9J |
| 596 | 3101061830000 | Chip capacitor 0603 0.018UF K 25V(RoHS) | 1 | C270 | B8J |
| 597 | 3101062000000 | Chip capacitor GRM1885C1H200J 20PF J 50V(RoHS) | 1 | C138 | B9E |
| 598 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C237 | T6I |
| 599 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C285 | T9A |
| 600 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C286 | T9C |
| 601 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C349 | B6L |
| 602 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C350 | B6L |
| 603 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C192 | T6G |
| 604 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C320 | B6F |
| 605 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C321 | B6F |
| 606 | 3101062220010 | Chip capacitor GRM39X7R222K50PFT(RoHS) | 1 | C201 | T6F |
| 607 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C283 | T9B |
| 608 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C313 | B6J |
| 609 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C316 | B7K |
| 610 | 3101062240000 | Chip capacitor 0603 0.22UF K 10V(RoHS) | 1 | C254 | B4E |
| 611 | 3101062240000 | Chip capacitor 0603 0.22UF K 10V(RoHS) | 1 | C299 | B2L |
| 612 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C272 | B8J |
| 613 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C274 | B9K |
| 614 | 3101062720000 | Chip capacitor 0603 2700PF K 50V(RoHS) | 1 | C282 | T8C |
| 615 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C190 | T8A |
| 616 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C195 | T8B |
| 617 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C225 | T7I |
| 618 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C264 | T6H |
| 619 | 3101063310010 | Chip capacitor 0603 330PF K 50V(RoHS) | 1 | C183 | T6E |
| 620 | 3101063340000 | Chip capacitor 0603 0.33UF Z 16V(RoHS) | 1 | C424 | B7M |

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| 621 | 3101063900000 | Chip capacitor 0603 39PF J 50V(RoHS) | 1 | C315 | T7L |
| 622 | 3101064700000 | Chip capacitor 0603 47PF J 50V(RoHS) | 1 | C104 | T6D |
| 623 | 3101064700000 | Chip capacitor 0603 47PF J 50V(RoHS) | 1 | C609 | T7M |
| 624 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C108 | B9G |
| 625 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C117 | B8E |
| 626 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C121 | B5H |
| 627 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C122 | B9I |
| 628 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C125 | T8I |
| 629 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C126 | T8H |
| 630 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C133 | B4F |
| 631 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C139 | B4F |
| 632 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C141 | B5G |
| 633 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C142 | B5E |
| 634 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C143 | B5G |
| 635 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C144 | B5G |
| 636 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C146 | B5H |
| 637 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C148 | B5H |
| 638 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C149 | T5F |
| 639 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C150 | B5I |
| 640 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C152 | T5G |
| 641 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C153 | T4H |
| 642 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C155 | T4G |
| 643 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C157 | T5K |
| 644 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C158 | B7D |
| 645 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C159 | T4J |
| 646 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C160 | T3J |
| 647 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C162 | B5D |
| 648 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C173 | B3A |
| 649 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C176 | B3A |
| 650 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C180 | B3A |
| 651 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C217 | T10M |
| 652 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C221 | T8H |
| 653 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C228 | T9J |
| 654 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C229 | T8I |
| 655 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C256 | B6C |
| 656 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C266 | B7L |
| 657 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C304 | B5E |
| 658 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C306 | B8E |
| 659 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C308 | B8E |
| 660 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C334 | T4D |
| 661 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C335 | T3D |
| 662 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C336 | T3D |
| 663 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C371 | B5E |
| 664 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C374 | B4E |
| 665 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C601 | T6M |
| 666 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C604 | T6M |
| 667 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C608 | T7N |
| 668 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C610 | T8M |
| 669 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C617 | T9M |
| 670 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C622 | T7M |
| 671 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C623 | T7M |
| 672 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C802 | T8H |

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| 673 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C803 | T8H |
| 674 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C804 | T8G |
| 675 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C204 | B10F |
| 676 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C271 | B8K |
| 677 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C319 | B7G |
| 678 | 3101064730000 | Chip capacitor GRM39X7R473K16PT(RoHS) | 1 | C290 | B7M |
| 679 | 3101064740000 | Chip capacitor 0603 0.47UF K 25V(RoHS) | 1 | C200 | T8B |
| 680 | 3101064740000 | Chip capacitor 0603 0.47UF K 25V(RoHS) | 1 | C227 | T10J |
| 681 | 3101064740000 | Chip capacitor 0603 0.47UF K 25V(RoHS) | 1 | C328 | B9I |
| 682 | 3101065610000 | Chip capacitor 0603 560PF K 50V(RoHS) | 1 | C194 | T8B |
| 683 | 3101065610000 | Chip capacitor 0603 560PF K 50V(RoHS) | 1 | C900 | T9D |
| 684 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C218 | B6E |
| 685 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C273 | B9J |
| 686 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C312 | T6L |
| 687 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C412 | B6E |
| 688 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C413 | T6L |
| 689 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C105 | T6F |
| 690 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C196 | T6F |
| 691 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C813 | B8H |
| 692 | 3101071040000 | Chip capacitor 0805 0.1UF K 25V(RoHS) | 1 | C186 | T6D |
| 693 | 3101071040000 | Chip capacitor 0805 0.1UF K 25V(RoHS) | 1 | C807 | T9H |
| 694 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C103 | T7E |
| 695 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C364 | B5L |
| 696 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C410 | B5M |
| 697 | 3101071200000 | Chip capacitor 0805 12PF J 50V(RoHS) | 1 | C151 | B4I |
| 698 | 3101073340010 | Chip capacitor 0805 0.33UF K 25V(RoHS) | 1 | C311 | B6J |
| 699 | 3101084710010 | Chip capacitor 631R18N471KV4E(RoHS) | 1 | C169 | T5K |
| 700 | 3101084710010 | Chip capacitor 631R18N471KV4E(RoHS) | 1 | C170 | T4M |
| 701 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C372 | T8F |
| 702 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C373 | T9F |
| 703 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C396 | T5F |
| 704 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C376 | T2D |
| 705 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C401 | T2C |
| 706 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C408 | T6C |
| 707 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C409 | T5C |
| 708 | 3210208881000 | Chip inductor LQH31HNR88J03L(RoHS) | 1 | L148 | T7J |
| 709 | 3210208881000 | Chip inductor LQH31HNR88J03L(RoHS) | 1 | L149 | T6J |
| 710 | 3212106121000 | Multi-layer chip inductor 0603 120nH HK1608(RoHS) | 1 | L141 | T7L |
| 711 | 3212106150000 | Chip inductor HK160815NJ 15nH(RoHS) | 1 | L118 | T8H |
| 712 | 3212106150000 | Chip inductor HK160815NJ 15nH(RoHS) | 1 | L121 | B5F |
| 713 | 3212106150000 | Chip inductor HK160815NJ 15nH(RoHS) | 1 | L123 | T8H |
| 714 | 3212106150000 | Chip inductor HK160815NJ 15nH(RoHS) | 1 | L124 | T8H |
| 715 | 3212106220000 | Chip inductor HK160822NJ 22nH(RoHS) | 1 | L120 | B5F |
| 716 | 3212106470000 | Chip inductor HK160847NJ 47nH(RoHS) | 1 | L129 | B6F |
| 717 | 3213212100000 | Chip inductor NLV25T-010J 10nH(RoHS) | 1 | L112 | B5G |
| 718 | 3213212100000 | Chip inductor NLV25T-010J 10nH(RoHS) | 1 | L127 | B5I |
| 719 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L109 | B6F |
| 720 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L114 | B6C |
| 721 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L601 | T7M |
| 722 | 3213212150000 | Chip inductor NLV25T-015J 15nH(RoHS) | 1 | L110 | B9E |
| 723 | 3213212150000 | Chip inductor NLV25T-015J 15nH(RoHS) | 1 | L111 | B9E |
| 724 | 3213212180000 | Chip inductor NLV25T-018J 18nH(RoHS) | 1 | L122 | B8E |

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| 725 | 3213212220000 | Chip inductor NLV25T-022J 22nH(RoHS) | 1 | L113 | B5I |
| 726 | 3213212220000 | Chip inductor NLV25T-022J 22nH(RoHS) | 1 | L137 | B8E |
| 727 | 3213212471000 | Chip inductor NLV25T-R47J-PF(RoHS) | 1 | L128 | T6H |
| 728 | 3213212471000 | Chip inductor NLV25T-R47J-PF(RoHS) | 1 | L602 | T8M |
| 729 | 3213212682000 | Chip inductor NLV25T-6R8J-PF(RoHS) | 1 | L115 | T8K |
| 730 | 3213306151000 | Chip inductor MLF1608DR15KT(RoHS) | 1 | L125 | B7C |
| 731 | 3213306151000 | Chip inductor MLF1608DR15KT(RoHS) | 1 | L131 | B7C |
| 732 | 3215106100000 | Chip inductor LLQ1608-F10NJ(RoHS) | 1 | L105 | B4G |
| 733 | 3215106820000 | Chip inductor LLQ1608-F82NG(RoHS) | 1 | L119 | B7D |
| 734 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L101 | B9M |
| 735 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L102 | T4H |
| 736 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L106 | B7K |
| 737 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L107 | B10N |
| 738 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L136 | B10F |
| 739 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L142 | B7M |
| 740 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L143 | B7L |
| 741 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L144 | B7L |
| 742 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L145 | B7L |
| 743 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L146 | B9H |
| 744 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L801 | T8H |
| 745 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L103 | T4J |
| 746 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L104 | T4J |
| 747 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L153 | T4D |
| 748 | 3231132830000 | Air-core inductor 1.3*2.8*3TR(RoHS) | 1 | L132 | T3M |
| 749 | 3231132830000 | Air-core inductor 1.3*2.8*3TR(RoHS) | 1 | L134 | T4M |
| 750 | 3231132830000 | Air-core inductor 1.3*2.8*3TR(RoHS) | 1 | L138 | T2M |
| 751 | 3231803011000 | Air-core inductor 0.8*3.0*11TR(RoHS) | 1 | L130 | T5K |
| 752 | 3231803011000 | Air-core inductor 0.8*3.0*11TR(RoHS) | 1 | L133 | B2B |
| 753 | 3244599451000 | Frequency detector coil 450KHZ(049798713)(RoHS) | 1 | L135 | T6I |
| 754 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L116 | T9K |
| 755 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L117 | T8L |
| 756 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L126 | T10L |
| 757 | 3301060400000 | Rectifier diode DSM3MA1TRF-E(RoHS) | 1 | D135 | B3E |
| 758 | 3302030500000 | Zener diode UDZSTE(1710B)10V(RoHS) | 1 | D112 | B2L |
| 759 | 3302030500010 | Zener diode UDZSTE(1715B)15V(RoHS) | 1 | D121 | B2K |
| 760 | 3302030500020 | Zener diode UDZSTE(1718B)18V(RoHS) | 1 | D136 | B3K |
| 761 | 3302030500030 | Zener diode UDZSTE(175.1B)(RoHS) | 1 | D107 | B10F |
| 762 | 3302030500030 | Zener diode UDZSTE(175.1B)(RoHS) | 1 | D108 | B10F |
| 763 | 3302030500030 | Zener diode UDZSTE(175.1B)(RoHS) | 1 | D113 | T4H |
| 764 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D109 | B2L |
| 765 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D117 | B5D |
| 766 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D118 | B3M |
| 767 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D130 | B6J |
| 768 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D131 | B9I |
| 769 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D132 | B3K |
| 770 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D133 | B2K |
| 771 | 3303020100020 | Switching diode MA2S11100L(RoHS) | 1 | D129 | B7K |
| 772 | 3303020100020 | Switching diode MA2S11100L(RoHS) | 1 | D801 | B8H |
| 773 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D102 | T6D |
| 774 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D103 | T6F |
| 775 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D105 | B3A |
| 776 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D106 | B3A |

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|---|---|---|---|---|---|
| 777 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D110 | B6J |
| 778 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D111 | B7F |
| 779 | 3303030100020 | Switching diode DAN235E SOT-416(RoHS) | 1 | D115 | T6H |
| 780 | 3303030100020 | Switching diode DAN235E SOT-416(RoHS) | 1 | D116 | T6G |
| 781 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D101 | T7I |
| 782 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D114 | T8I |
| 783 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D119 | T6L |
| 784 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D122 | T6L |
| 785 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D138 | B6E |
| 786 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D139 | B6E |
| 787 | 3303210100000 | Switching diode MA4P1250 3*2mm(RoHS) | 1 | D124 | T4M |
| 788 | 3303210100000 | Switching diode MA4P1250 3*2mm(RoHS) | 1 | D127 | T5M |
| 789 | 3303210100000 | Switching diode MA4P1250 3*2mm(RoHS) | 1 | D128 | T5M |
| 790 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D601 | T10M |
| 791 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D602 | T9M |
| 792 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D603 | T8M |
| 793 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D604 | T8M |
| 794 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D605 | T6M |
| 795 | 3304010100890 | Varactor 1SV279(TPH3.F)(RoHS) | 1 | D606 | T6M |
| 796 | 3399010600000 | Diode HSB123TR-E(RoHS) | 1 | D104 | B5H |
| 797 | 3399990000240 | Zener diode UDZSTE(174.7B)(RoHS) | 1 | D120 | T6H |
| 798 | 3401001000490 | Transistor 2SA1832-GR(RoHS) | 1 | Q806 | B8H |
| 799 | 3401002000140 | Transistor 2SC4215-Y(RoHS) | 1 | Q118 | B6F |
| 800 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q116 | T10J |
| 801 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q123 | B8I |
| 802 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q803 | T9H |
| 803 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q804 | T9H |
| 804 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q805 | T9H |
| 805 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q807 | T9I |
| 806 | 3401002000990 | Transistor 2SC5108-Y(RoHS) | 1 | Q124 | T8I |
| 807 | 3401002000990 | Transistor 2SC5108-Y(RoHS) | 1 | Q126 | B8F |
| 808 | 3403002000000 | Transistor 2SB1132FD5T100R(RoHS) | 1 | Q131 | B5J |
| 809 | 3403002000000 | Transistor 2SB1132FD5T100R(RoHS) | 1 | Q132 | B5K |
| 810 | 3403003000000 | Transistor 2SC2412K NPN(RoHS) | 1 | Q119 | T6H |
| 811 | 3403003000000 | Transistor 2SC2412K NPN(RoHS) | 1 | Q121 | B6J |
| 812 | 3403007000000 | Transistor DTA114EE(TL)(RoHS) | 1 | Q133 | B6K |
| 813 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q135 | B3L |
| 814 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q136 | B2K |
| 815 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q137 | B3K |
| 816 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q141 | B3M |
| 817 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q101 | B3M |
| 818 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q104 | B4L |
| 819 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q105 | B6K |
| 820 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q108 | T9C |
| 821 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q109 | T6C |
| 822 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q110 | B5J |
| 823 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q111 | B5K |
| 824 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q115 | B5L |
| 825 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q801 | B8H |
| 826 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q802 | B8H |
| 827 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q106 | B7H |
| 828 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q112 | B3L |

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|---|---|---|---|---|---|
| 829 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q113 | B3L |
| 830 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q134 | B2L |
| 831 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q139 | B2L |
| 832 | 3403008000180 | Transistor DTC363EU NPN(RoHS) | 1 | Q114 | B5L |
| 833 | 3403008000180 | Transistor DTC363EU NPN(RoHS) | 1 | Q157 | T5D |
| 834 | 3408002000000 | Transistor 2SC3356-R-A NPN(RoHS) | 1 | Q120 | B8D |
| 835 | 3408002000010 | Transistor 2SC3357-T1-A-RF NPN(RoHS) | 1 | Q125 | B7C |
| 836 | 3408002000010 | Transistor 2SC3357-T1-A-RF NPN(RoHS) | 1 | Q127 | B5G |
| 837 | 3408002000010 | Transistor 2SC3357-T1-A-RF NPN(RoHS) | 1 | Q128 | B5H |
| 838 | 3408002000010 | Transistor 2SC3357-T1-A-RF NPN(RoHS) | 1 | Q147 | B8E |
| 839 | 3408002000010 | Transistor 2SC3357-T1-A-RF NPN(RoHS) | 1 | Q601 | T7M |
| 840 | 3499000000140 | Transistor 2SK508-K52-T1B-A(RoHS) | 1 | Q138 | T9L |
| 841 | 3499000000140 | Transistor 2SK508-K52-T1B-A(RoHS) | 1 | Q144 | T9L |
| 842 | 3499000000140 | Transistor 2SK508-K52-T1B-A(RoHS) | 1 | Q145 | T9L |
| 843 | 3499000000140 | Transistor 2SK508-K52-T1B-A(RoHS) | 1 | Q146 | T9L |
| 844 | 3501030000000 | FET 2SJ506STR-E(RoHS) | 1 | Q142 | T3D |
| 845 | 3503010000010 | FET 2SJ243-T1-A(RoHS) | 1 | Q143 | B5M |
| 846 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q102 | B2K |
| 847 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q117 | B9J |
| 848 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q140 | B6F |
| 849 | 3603002005440 | IF processor TA31136FNG(RoHS) | 1 | IC119 | T6I |
| 850 | 3604025004350 | PLL ADF4111BRUZ 1.2GHz(RoHS) | 1 | IC801 | T8G |
| 851 | 3605002054590 | Operational amplifier TA75W01FU(RoHS) | 1 | IC118 | B5E |
| 852 | 3605002054790 | Operational amplifier TA75W558FU(RoHS) | 1 | IC107 | T6F |
| 853 | 3605002057090 | Operational amplifier TA75S01F(RoHS) | 1 | IC116 | B8I |
| 854 | 3605002057090 | Operational amplifier TA75S01F(RoHS) | 1 | IC117 | T6D |
| 855 | 3605002057290 | Operational amplifier TC75W51FU(RoHS) | 1 | IC108 | T8C |
| 856 | 3605008001690 | Operational amplifier NJM2904M 2-operational(RoHS) | 1 | IC110 | B6I |
| 857 | 3605008005070 | Operational amplifier NJM2904V 2-operational(RoHS) | 1 | IC104 | T6E |
| 858 | 3605008005070 | Operational amplifier NJM2904V 2-operational(RoHS) | 1 | IC130 | B6K |
| 859 | 3605008005120 | Operational amplifier NJM4558M 2-operational(RoHS) | 1 | IC109 | B6G |
| 860 | 3606045000000 | D/A converter M62364FP#D(RoHS) | 1 | IC125 | T5E |
| 861 | 3607002000180 | Dual D-type flip flop TC4013BF(RoHS) | 1 | IC127 | B3L |
| 862 | 3608002005490 | Power Management IC(DC) TA78L09F(RoHS) | 1 | IC114 | B9I |
| 863 | 3608002020890 | Power Management IC TA7805F(RoHS) | 1 | IC113 | T4B |
| 864 | 3608015005600 | Power Management IC XC62FP3502PR 3V(RoHS) | 1 | IC111 | T8F |
| 865 | 3609018000010 | DTMF decoder BU8872FS(RoHS) | 1 | IC122 | B7L |
| 866 | 3609018001090 | IC BU4066BCFV Quad analog switch IC(RoHS) | 1 | IC121 | T6C |
| 867 | 3612031004440 | Memory AT24C64AN-10SU-2.7(RoHS) | 1 | IC105 | B7J |
| 868 | 3612031004460 | Memory AT29C040A-90TU(RoHS) | 1 | IC103 | B9M |
| 869 | 3613034001060 | Bansband processor AK2346-E2(RoHS) | 1 | IC106 | T8B |
| 870 | 3701016850020 | TCXO 16.8MHz TCVCXO(RoHS) | 1 | X101 | B9H |
| 871 | 3701073550000 | Crystal 73.5MHz NX5032SA(RoHS) | 1 | X105 | T7H |
| 872 | 3701098340020 | Crystal 9.8304MHz NX8045GB(RoHS) | 1 | X102 | B9J |
| 873 | 3701368630000 | Crystal oscillator 3.6864MHz NX1255(RoHS) | 1 | X103 | T9B |
| 874 | 4001000000120 | Fuse MINISMDC075F(RoHS) | 1 | F103 | B10G |
| 875 | 4001000000130 | Fuse MINISMDC110F(RoHS) | 1 | F101 | B1K |
| 876 | 4518026000000 | Trimmer intermediate-frequency chip 25.2MHz(RoHS) | 1 | L108 | T6J |
| 877 | 4518026000000 | Trimmer intermediate-frequency chip 25.2MHz(RoHS) | 1 | L147 | T6J |
| 878 | 4518026000000 | Trimmer intermediate-frequency chip 25.2MHz(RoHS) | 1 | L150 | T7L |
| 879 | 4518026000000 | Trimmer intermediate-frequency chip 25.2MHz(RoHS) | 1 | L151 | T6L |
| 880 | 5202005100000 | Socket 53398-0571 5pin(RoHS) | 1 | J112 | T5C |

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|---|---|---|---|---|---|
| 881 | 3101081020010 | Chip capacitor 631R18N102KV4E(RoHS) | 1 | L152 | T4K |
| 882 | 410M8001002H0 | TM-800U Main board, PCB (RoHS) | 1 | | |
| 883 | 3101080100010 | Chip capacitor 501R18N1R0CV4E(RoHS) | 1 | C263 | T5N |
| 884 | 3101080100010 | Chip capacitor 501R18N1R0CV4E(RoHS) | 1 | C415 | T4L |
| 885 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C174 | T2L |
| 886 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C259 | T4M |
| 887 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C418 | T4M |
| 888 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C419 | T3M |
| 889 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C421 | T3N |
| 890 | 3101080200010 | Chip capacitor 501R18N2R0CV4E(RoHS) | 1 | C422 | T2M |
| 891 | 3610045000200 | SCM M3062LFGPGP(RoHS) | 1 | IC120 | B8L |
| 892 | 3102992000000 | Trimmer capacitor TZY2Z060A001 6pF(RoHS) | 1 | TC101 | T6K |
| 893 | 3102992000000 | Trimmer capacitor TZY2Z060A001 6pF(RoHS) | 1 | TC102 | T7K |
| 894 | 3701041940010 | Crystal 4.194304MHz(RoHS) | 1 | X104 | B6L |
| 895 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C603 | T6M |
| 896 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C605 | T6M |
| 897 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C612 | T8M |
| 898 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C613 | T8M |
| 899 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C619 | T9M |
| 900 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C630 | T9M |
| 901 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C631 | T8M |
| 902 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C632 | T6M |
| 903 | 3212106569000 | Chip inductor HK16085N6S 5.6nH(RoHS) | 1 | C265 | T10M |
| 904 | 3001065620000 | Chip resistor 0603 5.6KΩ D 1/10W(RoHS) | 1 | R460 | T5D |
| 905 | 3104204760030 | Tantalum capacitor NRC476M16R12(RoHS) | 1 | C385 | T10K |
| 906 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C370 | B9H |
| 907 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C379 | T6F |
| 908 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C383 | T6D |
| 909 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C384 | T6D |
| 910 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C386 | T7H |
| 911 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C390 | T7D |
| 912 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C391 | B6F |
| 913 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C392 | B7F |
| 914 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C397 | T4B |
| 915 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C404 | B8J |
| 916 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C405 | T8C |
| 917 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C406 | T5D |
| 918 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C435 | T5D |
| 919 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C460 | B5K |
| 920 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C461 | B6K |
| 921 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C123 | T10K |
| 922 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C381 | T9B |
| 923 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C395 | T5D |
| 924 | 3104081050090 | Tantalum capacitor TEESVA1C105M8R(RoHS) | 1 | C378 | T8B |
| 925 | 3104081050090 | Tantalum capacitor TEESVA1C105M8R(RoHS) | 1 | C380 | T8B |
| 926 | 3104081050090 | Tantalum capacitor TEESVA1C105M8R(RoHS) | 1 | C393 | B6J |
| 927 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C298 | B2L |
| 928 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C369 | T7D |
| 929 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C382 | T8F |
| 930 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C389 | B7L |
| 931 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C810 | T8H |
| 932 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C811 | T8H |

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| 933 | 3104081040020 | Tantalum capacitor TEESVA1V104M8R(RoHS) | 1 | C808 | T9H |
| 934 | 3002994730080 | Trimmer resistor TMC3KJ-B47K-TR(RoHS) | 1 | VR101 | T5J |
| 935 | 9900000001340 | Lead-free solder paste (conventional) FLY905-T1(RoHS) | 1 | | |
| 936 | 3104081560050 | Tantalum capacitor TEESVA1A156M8R(RoHS) | 1 | C387 | T6I |
| 937 | 3104083350050 | Tantalum capacitor F931C335MAA(RoHS) | 1 | C398 | B9I |
| 938 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R450 | B6K |
| 939 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R453 | B6K |
| 940 | 3411002000020 | Transistor 2SC5343EG NPN(RoHS) | 1 | Q150 | T7D |
| 941 | 3303020100080 | Switching diode MA2S077G0L(RoHS) | 1 | R270 | B7K |
| 942 | 3001061240010 | Chip resistor 0603 120KΩ J 1/10W(RoHS) | 1 | R449 | B6K |
| 943 | 3104083350070 | Tantalum capacitor TEESVA1A335M8R(RoHS) | 1 | C399 | B3M |
| 944 | 3104086840020 | Tantalum capacitor TEESVA1E684M8R(RoHS) | 1 | C806 | T9I |
| 945 | 3101080400010 | Chip capacitor 501R18N4R0CV4E(RoHS) | 1 | C181 | T2L |
| 946 | 3609999000330 | Reset supervisory IC CN813LESA(RoHS) | 1 | IC129 | T7C |
| 947 | 3104242250000 | Tantalum capacitor TAJA225K016RNJ(RoHS) | 1 | C809 | T8G |
| 948 | 3104242250000 | Tantalum capacitor TAJA225K016RNJ(RoHS) | 1 | C816 | T9G |
| 949 | 3104084750040 | Tantalum capacitor1206 4.7uF K 16V(RoHS) | 1 | C402 | B4L |
| 950 | 3104084750040 | Tantalum capacitor1206 4.7uF K 16V(RoHS) | 1 | C805 | B7H |
| 951 | 3001061530000 | Chip resistor 0603 15KΩ D 1/10W(RoHS) | 1 | R378 | B5L |

| TM-800 VHF(136-174MHz) Parts List 1 | | | | | |
|---|---|---|---|---|---|
| No. | Material No. | Description | Qty. | Ref No. | Print No. |
| 1 | 3001050000000 | Chip resistor 0402 0Ω J 1/16W(RoHS) | 1 | R168 | B8M |
| 2 | 3001050000000 | Chip resistor 0402 0Ω J 1/16W(RoHS) | 1 | R172 | B9M |
| 3 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R193 | T8E |
| 4 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R210 | T7D |
| 5 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R211 | B4K |
| 6 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R212 | T10M |
| 7 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R217 | T6D |
| 8 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R218 | T6E |
| 9 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R254 | B6C |
| 10 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R263 | B4D |
| 11 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R281 | B9K |
| 12 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R290 | T8D |
| 13 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R314 | B8E |
| 14 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R317 | B7J |
| 15 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R318 | B7J |
| 16 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R324 | B6J |
| 17 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R335 | B7J |
| 18 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R340 | B5J |
| 19 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R364 | B3L |
| 20 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R375 | B7L |
| 21 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R383 | B3L |
| 22 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R385 | B3K |
| 23 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R386 | B3K |
| 24 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R389 | B10H |
| 25 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R390 | T5D |
| 26 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R401 | T3C |
| 27 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R402 | T3C |
| 28 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R403 | B2L |
| 29 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R404 | B2L |
| 30 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R407 | T8C |
| 31 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R423 | T7D |
| 32 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R424 | T7D |
| 33 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R427 | T4C |
| 34 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R428 | T4C |
| 35 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R434 | T7D |
| 36 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R443 | T9E |
| 37 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R446 | B6K |
| 38 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R447 | B6K |
| 39 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R470 | T8D |
| 40 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R471 | T8D |
| 41 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R473 | T7D |
| 42 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R474 | T7E |
| 43 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R475 | T7E |
| 44 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R476 | T7E |
| 45 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R477 | T7E |
| 46 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R478 | T8E |
| 47 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R479 | T8E |
| 48 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R480 | T8E |
| 49 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R481 | T8D |
| 50 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R482 | T8E |

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| 51 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R483 | T8D |
| 52 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R484 | T8D |
| 53 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R486 | T8D |
| 54 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R492 | T10B |
| 55 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R497 | T7E |
| 56 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R501 | T10G |
| 57 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R504 | T7D |
| 58 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R506 | T7D |
| 59 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R510 | T6D |
| 60 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R511 | B9K |
| 61 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R603 | T7M |
| 62 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R817 | T8H |
| 63 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R823 | B8H |
| 64 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R112 | T8G |
| 65 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R113 | T8G |
| 66 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R114 | T8G |
| 67 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R265 | T9L |
| 68 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R266 | T9L |
| 69 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R267 | T9L |
| 70 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R268 | T9L |
| 71 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R440 | T9C |
| 72 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R811 | T8G |
| 73 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R812 | T8G |
| 74 | 3001061000000 | Chip resistor 0603 10Ω J 1/10W(RoHS) | 1 | R813 | T8H |
| 75 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R130 | T8I |
| 76 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R140 | B8F |
| 77 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R221 | B7H |
| 78 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R228 | T8I |
| 79 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R229 | T6I |
| 80 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R236 | T6H |
| 81 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R251 | B4E |
| 82 | 3001061010000 | Chip resistor 0603 100Ω J 1/10W(RoHS) | 1 | R520 | T7C |
| 83 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R127 | B9L |
| 84 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R144 | B7E |
| 85 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R166 | T4H |
| 86 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R177 | B2L |
| 87 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R178 | B3M |
| 88 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R232 | B6F |
| 89 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R234 | T6H |
| 90 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R256 | B7C |
| 91 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R273 | B9K |
| 92 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R288 | T8C |
| 93 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R328 | B7K |
| 94 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R344 | T6E |
| 95 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R349 | T6E |
| 96 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R350 | B6F |
| 97 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R361 | B3K |
| 98 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R508 | B9K |
| 99 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R602 | T7M |
| 100 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R118 | B8H |
| 101 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R135 | B9F |
| 102 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R139 | B8F |

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| 103 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R150 | B5G |
| 104 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R176 | B3L |
| 105 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R196 | T8A |
| 106 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R199 | T8A |
| 107 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R200 | T7E |
| 108 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R205 | T8B |
| 109 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R214 | T9L |
| 110 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R238 | T6J |
| 111 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R239 | B6E |
| 112 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R240 | T6H |
| 113 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R242 | B6E |
| 114 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R248 | T7L |
| 115 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R249 | T6L |
| 116 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R250 | T6L |
| 117 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R259 | B4E |
| 118 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R260 | B5E |
| 119 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R261 | T9L |
| 120 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R285 | B8K |
| 121 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R286 | B8J |
| 122 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R287 | T8C |
| 123 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R311 | B7E |
| 124 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R326 | B6G |
| 125 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R356 | B3M |
| 126 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R371 | T8C |
| 127 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R372 | T8C |
| 128 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R380 | B5M |
| 129 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R392 | T8H |
| 130 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R806 | B8H |
| 131 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R807 | B8H |
| 132 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R808 | T8G |
| 133 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R108 | B8I |
| 134 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R171 | B5D |
| 135 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R179 | B2M |
| 136 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R203 | T8B |
| 137 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R215 | T8D |
| 138 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R257 | B5E |
| 139 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R277 | B7K |
| 140 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R304 | T7C |
| 141 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R321 | T8D |
| 142 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R325 | B6J |
| 143 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R346 | T6E |
| 144 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R352 | T6D |
| 145 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R353 | T6D |
| 146 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R365 | B3L |
| 147 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R366 | B3K |
| 148 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R374 | T7C |
| 149 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R472 | T8D |
| 150 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R601 | T6M |
| 151 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R607 | T8M |
| 152 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R608 | T9M |
| 153 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R801 | B7H |
| 154 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R802 | B8H |

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| 155 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R803 | B8H |
| 156 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R294 | T8C |
| 157 | 3001061050010 | Chip resistor 0603 1MΩ J 1/10W(RoHS) | 1 | R301 | T10B |
| 158 | 3001061210000 | Chip resistor 0603 120Ω J 1/10W(RoHS) | 1 | R213 | T9K |
| 159 | 3001061220000 | Chip resistor 0603 1.2KΩ J 1/10W(RoHS) | 1 | R343 | T5E |
| 160 | 3001061220000 | Chip resistor 0603 1.2KΩ J 1/10W(RoHS) | 1 | R810 | T9I |
| 161 | 3001061230000 | Chip resistor 0603 12KΩ J 1/10W(RoHS) | 1 | R115 | T5D |
| 162 | 3001061230000 | Chip resistor 0603 12KΩ J 1/10W(RoHS) | 1 | R298 | T8C |
| 163 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R116 | B8H |
| 164 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R123 | B8I |
| 165 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R124 | T10J |
| 166 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R165 | B9K |
| 167 | 3001061520000 | Chip resistor 0603 1.5KΩ J 1/10W(RoHS) | 1 | R341 | B9K |
| 168 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R201 | T7D |
| 169 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R219 | T6H |
| 170 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R227 | T6F |
| 171 | 3001061530010 | Chip resistor 0603 15KΩ J 1/10W(RoHS) | 1 | R329 | B6G |
| 172 | 3001061540010 | Chip resistor 0603 150KΩ D 1/10W(RoHS) | 1 | R292 | T8C |
| 173 | 3001061540010 | Chip resistor 0603 150KΩ D 1/10W(RoHS) | 1 | R347 | T6E |
| 174 | 3001061540010 | Chip resistor 0603 150KΩ D 1/10W(RoHS) | 1 | R369 | T8C |
| 175 | 3001061810000 | Chip resistor 0603 180Ω J 1/10W(RoHS) | 1 | R145 | B5F |
| 176 | 3001061810000 | Chip resistor 0603 180Ω J 1/10W(RoHS) | 1 | R148 | B5F |
| 177 | 3001061820000 | Chip resistor 0603 1.8KΩ J 1/10W(RoHS) | 1 | R146 | B5F |
| 178 | 3001061820000 | Chip resistor 0603 1.8KΩ J 1/10W(RoHS) | 1 | R258 | B7C |
| 179 | 3001061820000 | Chip resistor 0603 1.8KΩ J 1/10W(RoHS) | 1 | R338 | B7F |
| 180 | 3001061830010 | Chip resistor 0603 18KΩ J 1/10W(RoHS) | 1 | R291 | T9A |
| 181 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R104 | T7E |
| 182 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R181 | B5D |
| 183 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R187 | T6D |
| 184 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R207 | T7D |
| 185 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R208 | T7D |
| 186 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R216 | T8D |
| 187 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R331 | B6G |
| 188 | 3001061840000 | Chip resistor 0603 180KΩ J 1/10W(RoHS) | 1 | R455 | B6K |
| 189 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R109 | B9H |
| 190 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R154 | B5H |
| 191 | 3001062200000 | Chip resistor 0603 22Ω J 1/10W(RoHS) | 1 | R312 | B7D |
| 192 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R132 | T8H |
| 193 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R355 | B6H |
| 194 | 3001062210000 | Chip resistor 0603 220Ω J 1/10W(RoHS) | 1 | R388 | B6I |
| 195 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R143 | T7I |
| 196 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R149 | B5G |
| 197 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R153 | B5H |
| 198 | 3001062220000 | Chip resistor 0603 2.2KΩ J 1/10W(RoHS) | 1 | R342 | B5J |
| 199 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R126 | T9E |
| 200 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R204 | T9E |
| 201 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R209 | T7D |
| 202 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R220 | B6H |
| 203 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R226 | B6I |
| 204 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R231 | T6I |
| 205 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R278 | B9J |
| 206 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R283 | B9J |

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| 207 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R302 | T7C |
| 208 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R306 | B7M |
| 209 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R339 | B7G |
| 210 | 3001062230000 | Chip resistor 0603 22KΩ J 1/10W(RoHS) | 1 | R378 | B5L |
| 211 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R110 | B9H |
| 212 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R323 | B7G |
| 213 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R244 | B6E |
| 214 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R245 | B6E |
| 215 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R246 | B6D |
| 216 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R247 | B6D |
| 217 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R309 | T10K |
| 218 | 3001062710000 | Chip resistor 0603 270Ω J 1/10W(RoHS) | 1 | R310 | T10L |
| 219 | 3001062720000 | Chip resistor 0603 2.7KΩ J 1/10W(RoHS) | 1 | R804 | T8H |
| 220 | 3001062720000 | Chip resistor 0603 2.7KΩ J 1/10W(RoHS) | 1 | R805 | T9H |
| 221 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R137 | T8H |
| 222 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R147 | B4F |
| 223 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R275 | B7C |
| 224 | 3001063300000 | Chip resistor 0603 33Ω J 1/10W(RoHS) | 1 | R316 | B7E |
| 225 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R141 | B8F |
| 226 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R142 | B8F |
| 227 | 3001063310010 | Chip resistor 0603 330Ω J 1/10W(RoHS) | 1 | R605 | T8M |
| 228 | 3001063320000 | Chip resistor 0603 3.3KΩ J 1/10W(RoHS) | 1 | R330 | B6K |
| 229 | 3001063320000 | Chip resistor 0603 3.3KΩ J 1/10W(RoHS) | 1 | R334 | B7G |
| 230 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R138 | B8F |
| 231 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R183 | T9D |
| 232 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R305 | B6M |
| 233 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R357 | B3L |
| 234 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R367 | B2L |
| 235 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R452 | B6K |
| 236 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R507 | B7L |
| 237 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R169 | B5E |
| 238 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R197 | T8A |
| 239 | 3001063340000 | Chip resistor 0603 330KΩ J 1/10W(RoHS) | 1 | R327 | B7J |
| 240 | 3001063920000 | Chip resistor 0603 3.9KΩ J 1/10W(RoHS) | 1 | R225 | B7G |
| 241 | 3001063940010 | Chip resistor 0603 390KΩ J 1/10W(RoHS) | 1 | R103 | T7E |
| 242 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R136 | T8I |
| 243 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R159 | T7L |
| 244 | 3001064700000 | Chip resistor 0603 47Ω J 1/10W(RoHS) | 1 | R606 | T7M |
| 245 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R129 | B5I |
| 246 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R155 | B5H |
| 247 | 3001064710000 | Chip resistor 0603 470Ω J 1/10W(RoHS) | 1 | R358 | B3L |
| 248 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R121 | T10C |
| 249 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R122 | T10C |
| 250 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R125 | T10B |
| 251 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R134 | T8I |
| 252 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R192 | B9J |
| 253 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R230 | B6F |
| 254 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R282 | B8J |
| 255 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R284 | B8K |
| 256 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R315 | B7E |
| 257 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R337 | B7F |
| 258 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R351 | B5K |

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| 259 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R373 | T8C |
| 260 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R376 | B5L |
| 261 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R431 | T6E |
| 262 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R444 | T5D |
| 263 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R485 | T8D |
| 264 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R604 | T7M |
| 265 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R105 | B4L |
| 266 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R120 | B9J |
| 267 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R131 | B5E |
| 268 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R173 | B5E |
| 269 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R174 | B3A |
| 270 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R175 | B3A |
| 271 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R180 | B9L |
| 272 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R182 | T7C |
| 273 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R190 | T8D |
| 274 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R191 | B7K |
| 275 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R194 | T9E |
| 276 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R198 | T9A |
| 277 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R235 | B6F |
| 278 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R237 | T6H |
| 279 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R271 | B2K |
| 280 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R272 | B7K |
| 281 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R274 | B8K |
| 282 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R279 | B8J |
| 283 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R280 | B8K |
| 284 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R300 | T7B |
| 285 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R320 | T7D |
| 286 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R332 | B7F |
| 287 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R345 | B5J |
| 288 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R348 | B5K |
| 289 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R360 | T3D |
| 290 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R362 | B2K |
| 291 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R363 | B3L |
| 292 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R377 | B5K |
| 293 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R387 | B2K |
| 294 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R409 | B10J |
| 295 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R410 | B10K |
| 296 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R411 | B10K |
| 297 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R491 | B8K |
| 298 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R500 | T7C |
| 299 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R611 | T10C |
| 300 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R816 | T9I |
| 301 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R106 | B8I |
| 302 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R111 | B9H |
| 303 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R185 | T9D |
| 304 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R297 | T8D |
| 305 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R336 | B6F |
| 306 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R381 | B5M |
| 307 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R382 | B5M |
| 308 | 3001064740010 | Chip resistor 0603 470KΩ J 1/10W(RoHS) | 1 | R818 | T9I |
| 309 | 3001065120000 | Chip resistor 0603 5.1KΩ J 1/10W(RoHS) | 1 | R490 | B8K |
| 310 | 3001065130010 | Chip resistor 0603 51KΩ J 1/10W(RoHS) | 1 | R195 | T8A |

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| 311 | 3001065690000 | Chip resistor 0603 5.6Ω J 1/10W(RoHS) | 1 | R152 | B9D |
| 312 | 3001065600000 | Chip resistor 0603 56Ω J 1/10W(RoHS) | 1 | R223 | T8H |
| 313 | 3001065610000 | Chip resistor 0603 560Ω J 1/10W(RoHS) | 1 | R819 | T9H |
| 314 | 3001065610000 | Chip resistor 0603 560Ω J 1/10W(RoHS) | 1 | R820 | T9H |
| 315 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R128 | B7K |
| 316 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R206 | T8C |
| 317 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R303 | T9C |
| 318 | 3001065630000 | Chip resistor 0603 56KΩ J 1/10W(RoHS) | 1 | R454 | B6K |
| 319 | 3001066230010 | Chip resistor 0603 62KΩ J 1/10W(RoHS) | 1 | R189 | T8E |
| 320 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R222 | B6G |
| 321 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R224 | B6I |
| 322 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R255 | B7C |
| 323 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R101 | T9E |
| 324 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R295 | T7C |
| 325 | 3001066830000 | Chip resistor 0603 68KΩ J 1/10W(RoHS) | 1 | R322 | B6J |
| 326 | 3001068210010 | Chip resistor 0603 820Ω J 1/10W(RoHS) | 1 | R241 | B9D |
| 327 | 3001068210010 | Chip resistor 0603 820Ω J 1/10W(RoHS) | 1 | R243 | B9D |
| 328 | 3001068210010 | Chip resistor 0603 820Ω J 1/10W(RoHS) | 1 | R809 | T8H |
| 329 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R117 | T5D |
| 330 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R289 | T8D |
| 331 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R370 | T8C |
| 332 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R400 | T5D |
| 333 | 3001068220000 | Chip resistor 0603 8.2KΩ J 1/10W(RoHS) | 1 | R451 | B6K |
| 334 | 3001068230010 | Chip resistor 0603 82KΩ J 1/10W(RoHS) | 1 | R102 | T7E |
| 335 | 3001069120000 | Chip resistor 0603 9.1KΩ J 1/10W(RoHS) | 1 | R202 | T8B |
| 336 | 3001069130000 | Chip resistor 0603 91KΩ D 1/10W(RoHS) | 1 | R188 | T9E |
| 337 | 3001070000000 | Chip resistor 0805 0Ω J 1/8W(RoHS) | 1 | L603 | T7N |
| 338 | 3001071800000 | Chip resistor 0805 18Ω J 1/8W(RoHS) | 1 | R157 | B5H |
| 339 | 3001071800000 | Chip resistor 0805 18Ω J 1/8W(RoHS) | 1 | R161 | T3F |
| 340 | 3001072710000 | Chip resistor 0805 270Ω J 1/8W(RoHS) | 1 | R160 | T3F |
| 341 | 3001072710000 | Chip resistor 0805 270Ω J 1/8W(RoHS) | 1 | R163 | T3F |
| 342 | 3001074700000 | Chip resistor 0805 47Ω J 1/8W(RoHS) | 1 | R156 | B5H |
| 343 | 3001161020000 | Chip resistor 2010 1KΩ J 1/2W(RoHS) | 1 | R814 | B9G |
| 344 | 3001161210000 | Chip resistor 2010 120Ω J 1/2W(RoHS) | 1 | R170 | B5D |
| 345 | 3001162200000 | Chip resistor 2010 22Ω J 1/2W(RoHS) | 1 | R158 | T5F |
| 346 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP101 | B9M |
| 347 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP102 | B9M |
| 348 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP103 | B8M |
| 349 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP105 | B9L |
| 350 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP109 | B8M |
| 351 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP111 | B9M |
| 352 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP112 | B9M |
| 353 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP113 | B9M |
| 354 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP114 | B8M |
| 355 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP115 | B8M |
| 356 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP118 | B7L |
| 357 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP119 | B7L |
| 358 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP120 | B7L |
| 359 | 3005050000000 | Resistor array 0402 0Ω*2 J 1/16W(RoHS) | 1 | CP121 | B7L |
| 360 | 3005051010000 | Resistor array 0402 100Ω*2 J 1/16W(RoHS) | 1 | CP116 | B9K |
| 361 | 3005051010000 | Resistor array 0402 100Ω*2 J 1/16W(RoHS) | 1 | CP122 | B8K |
| 362 | 3101060300010 | Chip capacitor 0603 3PF B 50V(RoHS) | 1 | C119 | T8H |

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| 363 | 3101060300010 | Chip capacitor 0603 3PF B 50V(RoHS) | 1 | C120 | T8H |
| 364 | 3101060400010 | Chip capacitor 0603 4PF B 50V(RoHS) | 1 | C371 | T4F |
| 365 | 3101060500010 | Chip capacitor 0603 5PF B 50V(RoHS) | 1 | C301 | T10L |
| 366 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C171 | T3N |
| 367 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C172 | T3N |
| 368 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C178 | T2M |
| 369 | 3101060590010 | Chip capacitor 0603 0.5PF B 50V(RoHS) | 1 | C179 | T2M |
| 370 | 3101060600010 | Chip capacitor GRM1885C1H6R0B201(RoHS) | 1 | C244 | B7E |
| 371 | 3101060600010 | Chip capacitor GRM1885C1H6R0B201(RoHS) | 1 | C249 | B7D |
| 372 | 3101060700020 | Chip capacitor 0603 7PF B 50V(RoHS) | 1 | C245 | B6E |
| 373 | 3101060700020 | Chip capacitor 0603 7PF B 50V(RoHS) | 1 | C248 | B6D |
| 374 | 3101060800010 | Chip capacitor 0603 8PF B 50V(RoHS) | 1 | C374 | B6F |
| 375 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C132 | B8E |
| 376 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C602 | T6M |
| 377 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C607 | T7M |
| 378 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C611 | T8M |
| 379 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C615 | T8M |
| 380 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C618 | T9M |
| 381 | 3101060900010 | Chip capacitor 0603 9PF B 50V(RoHS) | 1 | C621 | T9M |
| 382 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C110 | B8H |
| 383 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C239 | B6F |
| 384 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C606 | T6M |
| 385 | 3101061000000 | Chip capacitor 0603 10PF J 50V(RoHS) | 1 | C614 | T8M |
| 386 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C106 | B2L |
| 387 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C143 | B5G |
| 388 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C150 | B5I |
| 389 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C203 | B1L |
| 390 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C205 | B10F |
| 391 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C206 | B10F |
| 392 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C207 | T5C |
| 393 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C208 | T5C |
| 394 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C225 | T7I |
| 395 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C265 | T7L |
| 396 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C303 | B8E |
| 397 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C446 | T7E |
| 398 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C448 | T7E |
| 399 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C457 | T9D |
| 400 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C107 | B1K |
| 401 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C108 | B9G |
| 402 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C109 | B8G |
| 403 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C113 | T8G |
| 404 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C114 | B8G |
| 405 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C116 | T8G |
| 406 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C118 | T8G |
| 407 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C122 | B9I |
| 408 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C125 | T8I |
| 409 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C126 | T8H |
| 410 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C127 | B8F |
| 411 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C128 | B8F |
| 412 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C129 | B8F |
| 413 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C131 | B8F |
| 414 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C133 | B4F |

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| 415 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C139 | B4F |
| 416 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C141 | B5G |
| 417 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C142 | B5E |
| 418 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C146 | B5H |
| 419 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C149 | T5G |
| 420 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C152 | T5F |
| 421 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C153 | T4H |
| 422 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C154 | B7C |
| 423 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C155 | T10M |
| 424 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C159 | T4J |
| 425 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C160 | T3J |
| 426 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C162 | T5K |
| 427 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C173 | B5D |
| 428 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C176 | B3A |
| 429 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C180 | B3A |
| 430 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C182 | T9D |
| 431 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C184 | B7K |
| 432 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C211 | B2L |
| 433 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C212 | B1L |
| 434 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C213 | B1L |
| 435 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C214 | B2L |
| 436 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C220 | B7G |
| 437 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C221 | T8H |
| 438 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C228 | T9J |
| 439 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C229 | T8I |
| 440 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C231 | B9F |
| 441 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C232 | B8F |
| 442 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C238 | B7E |
| 443 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C251 | T4F |
| 444 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C254 | B4E |
| 445 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C256 | B6C |
| 446 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C264 | T4G |
| 447 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C275 | T8D |
| 448 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C284 | T7B |
| 449 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C287 | T7B |
| 450 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C288 | T7C |
| 451 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C291 | B1K |
| 452 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C292 | B1L |
| 453 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C293 | B1L |
| 454 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C294 | B1K |
| 455 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C295 | B1L |
| 456 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C296 | B1L |
| 457 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C300 | B10G |
| 458 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C302 | B10G |
| 459 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C304 | T5M |
| 460 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C306 | B7D |
| 461 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C308 | B7D |
| 462 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C310 | B7E |
| 463 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C314 | B6J |
| 464 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C317 | B7J |
| 465 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C323 | B5K |
| 466 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C325 | T6D |

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| 467 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C327 | B9I |
| 468 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C330 | B6E |
| 469 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C331 | B9I |
| 470 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C332 | T7L |
| 471 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C334 | T4D |
| 472 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C335 | T3D |
| 473 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C336 | T3D |
| 474 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C338 | T6L |
| 475 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C342 | B3K |
| 476 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C346 | T8C |
| 477 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C360 | B6F |
| 478 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C365 | B6M |
| 479 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C367 | B1M |
| 480 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C368 | B1M |
| 481 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C411 | T4D |
| 482 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C440 | T8D |
| 483 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C441 | T8D |
| 484 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C442 | T8D |
| 485 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C443 | T7D |
| 486 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C447 | T7E |
| 487 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C449 | T7E |
| 488 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C450 | T8E |
| 489 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C451 | T9E |
| 490 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C452 | T9E |
| 491 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C453 | T9E |
| 492 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C455 | T9E |
| 493 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C456 | T8D |
| 494 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C458 | T8D |
| 495 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C459 | T8D |
| 496 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C601 | T6M |
| 497 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C608 | T7N |
| 498 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C622 | T8M |
| 499 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C725 | B8F |
| 500 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C801 | B8H |
| 501 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C802 | T8H |
| 502 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C803 | T8H |
| 503 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C804 | T8G |
| 504 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C812 | T8G |
| 505 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C112 | B9I |
| 506 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C115 | B8I |
| 507 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C166 | T5K |
| 508 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C167 | B5D |
| 509 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C187 | B9J |
| 510 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C193 | T7E |
| 511 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C217 | B7H |
| 512 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C219 | B6I |
| 513 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C227 | T10J |
| 514 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C230 | B6I |
| 515 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C236 | T6I |
| 516 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C241 | B6F |
| 517 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C242 | T6H |
| 518 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C252 | B6C |

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| 519 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C257 | B7C |
| 520 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C258 | T8K |
| 521 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C260 | T10K |
| 522 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C261 | T10L |
| 523 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C269 | B8K |
| 524 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C297 | B4K |
| 525 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C309 | B7C |
| 526 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C318 | B6G |
| 527 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C322 | T4G |
| 528 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C326 | T4B |
| 529 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C341 | B6H |
| 530 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C344 | T8C |
| 531 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C347 | T8C |
| 532 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C361 | B6H |
| 533 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C377 | B2M |
| 534 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C604 | T6M |
| 535 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C610 | T8M |
| 536 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C617 | T9M |
| 537 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C623 | T7M |
| 538 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C156 | T4H |
| 539 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C158 | T8E |
| 540 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C161 | T4J |
| 541 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C164 | T3J |
| 542 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C185 | T8E |
| 543 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C188 | T8E |
| 544 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C197 | T9C |
| 545 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C202 | T9E |
| 546 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C215 | T8F |
| 547 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C216 | B8I |
| 548 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C233 | T6H |
| 549 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C234 | T6F |
| 550 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C235 | T7I |
| 551 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C262 | T8K |
| 552 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C267 | B6K |
| 553 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C276 | T8D |
| 554 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C277 | T7C |
| 555 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C279 | T8E |
| 556 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C280 | T7D |
| 557 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C289 | B6M |
| 558 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C329 | T4B |
| 559 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C333 | B4M |
| 560 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C339 | B2K |
| 561 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C340 | B4L |
| 562 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C343 | B8J |
| 563 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C345 | T8C |
| 564 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C348 | T7C |
| 565 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C351 | B7M |
| 566 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C363 | B5L |
| 567 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C413 | T8C |
| 568 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C466 | T7C |
| 569 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C469 | T7D |
| 570 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C471 | B3L |

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| 571 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C472 | B3L |
| 572 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C474 | B6K |
| 573 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C624 | T7M |
| 574 | 3101061040010 | Chip capacitor 0603 0.1UF K 16V(RoHS) | 1 | C815 | B9G |
| 575 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C101 | B10N |
| 576 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C102 | B9M |
| 577 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C281 | T7B |
| 578 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C362 | B5K |
| 579 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C434 | T7C |
| 580 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C464 | B6K |
| 581 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C465 | B5K |
| 582 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C473 | T8D |
| 583 | 3101061050060 | Chip capacitor 0603 1UF K 10V(RoHS) | 1 | C475 | T7E |
| 584 | 3101061200000 | Chip capacitor 0603 12PF J 50V(RoHS) | 1 | C151 | B4I |
| 585 | 3101061230000 | Chip capacitor 0603 0.012UF K 25V(RoHS) | 1 | C199 | T7D |
| 586 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C124 | T8H |
| 587 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C130 | B7F |
| 588 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C140 | B9E |
| 589 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C223 | T8H |
| 590 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C226 | T8H |
| 591 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C240 | B8E |
| 592 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C609 | T8N |
| 593 | 3101061500010 | Chip capacitor 0603 15PF J 50V(RoHS) | 1 | C620 | T9M |
| 594 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C144 | B5G |
| 595 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C198 | T8B |
| 596 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C243 | B6F |
| 597 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C250 | B6C |
| 598 | 3101061510000 | Chip capacitor 0603 150PF J 50V(RoHS) | 1 | C616 | T9M |
| 599 | 3101061540000 | Chip capacitor 0603 0.15UF K 25V(RoHS) | 1 | C189 | T8A |
| 600 | 3101061800000 | Chip capacitor 0603 18PF J 50V(RoHS) | 1 | C247 | B7D |
| 601 | 3101061830000 | Chip capacitor 0603 0.018UF K 25V(RoHS) | 1 | C268 | B9J |
| 602 | 3101061830000 | Chip capacitor 0603 0.018UF K 25V(RoHS) | 1 | C270 | B8J |
| 603 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C222 | B7G |
| 604 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C237 | T6I |
| 605 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C246 | B6D |
| 606 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C285 | T9A |
| 607 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C286 | T9C |
| 608 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C349 | B6K |
| 609 | 3101062200010 | Chip capacitor 0603 22PF J 50V(RoHS) | 1 | C350 | B6L |
| 610 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C255 | B7C |
| 611 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C320 | B6F |
| 612 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C321 | B6F |
| 613 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C603 | T6M |
| 614 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C605 | T6M |
| 615 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C612 | T8M |
| 616 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C613 | T8M |
| 617 | 3101062210000 | Chip capacitor 0603 220PF J 50V(RoHS) | 1 | C619 | T9M |
| 618 | 3101062220010 | Chip capacitor GRM39X7R222K50PFT(RoHS) | 1 | C201 | T7D |
| 619 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C283 | T9C |
| 620 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C313 | B6J |
| 621 | 3101062230020 | Chip capacitor 0603 0.022UF K 25V(RoHS) | 1 | C316 | B7K |
| 622 | 3101062240000 | Chip capacitor 0603 0.22UF K 10V(RoHS) | 1 | C163 | B5E |

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| 623 | 3101062240000 | Chip capacitor 0603 0.22UF K 10V(RoHS) | 1 | C299 | B2L |
| 624 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C134 | B4F |
| 625 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C135 | B8E |
| 626 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C138 | B9E |
| 627 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C224 | T8H |
| 628 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C272 | B8J |
| 629 | 3101062700010 | Chip capacitor 0603 27PF J 50V(RoHS) | 1 | C274 | B9K |
| 630 | 3101062720000 | Chip capacitor 0603 2700PF K 50V(RoHS) | 1 | C282 | T8C |
| 631 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C190 | T8A |
| 632 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C195 | T8B |
| 633 | 3101063300000 | Chip capacitor 0603 33PF J 50V(RoHS) | 1 | C253 | B7C |
| 634 | 3101063310010 | Chip capacitor 0603 330PF K 50V(RoHS) | 1 | C183 | T9E |
| 635 | 3101063310010 | Chip capacitor 0603 330PF K 50V(RoHS) | 1 | C312 | B7G |
| 636 | 3101063340000 | Chip capacitor 0603 0.33UF Z 16V(RoHS) | 1 | C414 | B7L |
| 637 | 3101063900000 | Chip capacitor 0603 39PF J 50V(RoHS) | 1 | C145 | B4H |
| 638 | 3101064700000 | Chip capacitor 0603 47PF J 50V(RoHS) | 1 | C104 | T8D |
| 639 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C266 | B7L |
| 640 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C324 | B6E |
| 641 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C204 | B10F |
| 642 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C271 | B8K |
| 643 | 3101064720000 | Chip capacitor 0603 4700PF K 50V(RoHS) | 1 | C319 | B7G |
| 644 | 3101064730000 | Chip capacitor GRM39X7R473K16PT(RoHS) | 1 | C157 | B5E |
| 645 | 3101064730000 | Chip capacitor GRM39X7R473K16PT(RoHS) | 1 | C290 | B7M |
| 646 | 3101064740020 | Chip capacitor 0603 0.47UF Z 16V(RoHS) | 1 | C200 | T8B |
| 647 | 3101064740020 | Chip capacitor 0603 0.47UF Z 16V(RoHS) | 1 | C328 | B9I |
| 648 | 3101065610000 | Chip capacitor 0603 560PF K 50V(RoHS) | 1 | C194 | T8B |
| 649 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C273 | B9J |
| 650 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C315 | B7G |
| 651 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C105 | T7D |
| 652 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C196 | T7E |
| 653 | 3101066830000 | Chip capacitor GRM188R11C683KA01(RoHS) | 1 | C813 | B8H |
| 654 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C103 | T9D |
| 655 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C364 | B5L |
| 656 | 3101071050010 | Chip capacitor 0805 1UF K 10V(RoHS) | 1 | C410 | B5M |
| 657 | 3101072240000 | Chip capacitor 0805 0.22UF K 25V(RoHS) | 1 | C807 | T9H |
| 658 | 3101072240000 | Chip capacitor 0805 0.22UF K 25V(RoHS) | 1 | C814 | B9G |
| 659 | 3101073340000 | Chip capacitor 0805 0.33UF K 16V(RoHS) | 1 | C311 | B6J |
| 660 | 3101080400010 | Chip capacitor 501R18N4R0CV4E(RoHS) | 1 | C111 | T3N |
| 661 | 3101080800010 | Chip capacitor 501R18N8R0DV4E(RoHS) | 1 | C117 | T2M |
| 662 | 3101081000010 | Chip capacitor 501R18N100JV4E(RoHS) | 1 | C174 | T2L |
| 663 | 3101081000010 | Chip capacitor 501R18N100JV4E(RoHS) | 1 | C175 | T4M |
| 664 | 3101081800010 | Chip capacitor 501R18N180JV4E(RoHS) | 1 | C165 | T4K |
| 665 | 3101081800010 | Chip capacitor 501R18N180JV4E(RoHS) | 1 | C181 | T2L |
| 666 | 3101082200010 | Chip capacitor 501R18N220JV4E(RoHS) | 1 | C177 | T3M |
| 667 | 3101082200010 | Chip capacitor 501R18N220JV4E(RoHS) | 1 | C259 | T5M |
| 668 | 3212106390000 | Chip inductor HK160839NJ 39nH(RoHS) | 1 | L123 | T8H |
| 669 | 3212106390000 | Chip inductor HK160839NJ 39nH(RoHS) | 1 | L124 | T8H |
| 670 | 3212106560000 | Chip inductor HK160856NJ 56nH(RoHS) | 1 | L120 | B5F |
| 671 | 3212106560000 | Chip inductor HK160856NJ 56nH(RoHS) | 1 | L121 | B5F |
| 672 | 3212106820000 | Chip inductor HK160882NJ 82nH(RoHS) | 1 | L119 | B8F |
| 673 | 3213212101010 | Chip inductor NLV25T-R10J-PF(RoHS) | 1 | L142 | T7L |
| 674 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L108 | B8H |

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| 675 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L114 | B6C |
| 676 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L140 | B6F |
| 677 | 3213212103000 | Chip inductor NLV25T-100J-PF(RoHS) | 1 | L601 | T7M |
| 678 | 3213212330000 | Chip inductor NLV25T-033J-PF(RoHS) | 1 | L109 | B8E |
| 679 | 3213212330000 | Chip inductor NLV25T-033J-PF(RoHS) | 1 | L110 | B9E |
| 680 | 3213212330000 | Chip inductor NLV25T-033J-PF(RoHS) | 1 | L111 | B9E |
| 681 | 3213212330000 | Chip inductor NLV25T-033J-PF(RoHS) | 1 | L112 | B5G |
| 682 | 3213212390000 | Chip inductor NLV25T-039J-PF(RoHS) | 1 | L137 | B7D |
| 683 | 3213212680000 | Chip inductor NLV25T-068J-PF(RoHS) | 1 | L113 | B5I |
| 684 | 3213212682000 | Chip inductor NLV25T-6R8J-PF(RoHS) | 1 | L115 | T8K |
| 685 | 3213212820010 | Chip inductor NLV25T-082J-PF(RoHS) | 1 | L602 | T8M |
| 686 | 3213306331000 | Chip inductor MLF1608DR33KT(RoHS) | 1 | L122 | B7G |
| 687 | 3213306331000 | Chip inductor MLF1608DR33KT(RoHS) | 1 | L125 | B7C |
| 688 | 3213306331000 | Chip inductor MLF1608DR33KT(RoHS) | 1 | L127 | B7G |
| 689 | 3213306331000 | Chip inductor MLF1608DR33KT(RoHS) | 1 | L128 | B7G |
| 690 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L103 | T4J |
| 691 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L104 | T4J |
| 692 | 3221513600000 | Chip ferrite bead BLM41PG600SN1 60Ω(RoHS) | 1 | L153 | T4D |
| 693 | 3231803011000 | Air-core inductor 0.8*3.0*11TR(RoHS) | 1 | L133 | B2B |
| 694 | 3231803050000 | Air-core inductor 0.8*3.0*5TR(RoHS) | 1 | L129 | T4K |
| 695 | 3231803050000 | Air-core inductor 0.8*3.0*5TR(RoHS) | 1 | L131 | T3M |
| 696 | 3231803050000 | Air-core inductor 0.8*3.0*5TR(RoHS) | 1 | L132 | T3M |
| 697 | 3231803050000 | Air-core inductor 0.8*3.0*5TR(RoHS) | 1 | L134 | T5M |
| 698 | 3231803050000 | Air-core inductor 0.8*3.0*5TR(RoHS) | 1 | L138 | T2M |
| 699 | 3231803060000 | Air-core inductor 0.8*3.0*6TR(RoHS) | 1 | L130 | T5K |
| 700 | 3301060400000 | Rectifier diode DSM3MA1TRF-E(RoHS) | 1 | D135 | B3E |
| 701 | 3303210100000 | Switching diode MA4P1250 3*2mm(RoHS) | 1 | D124 | T4M |
| 702 | 3303210100000 | Switching diode MA4P1250 3*2mm(RoHS) | 1 | D127 | T5N |
| 703 | 3304010100390 | Varactor 1SV228(TPH6.F)(RoHS) | 1 | D601 | T9M |
| 704 | 3304010100390 | Varactor 1SV228(TPH6.F)(RoHS) | 1 | D602 | T8M |
| 705 | 3304010100390 | Varactor 1SV228(TPH6.F)(RoHS) | 1 | D603 | T6M |
| 706 | 3401002000990 | Transistor 2SC5108-Y(TE85L.F)(RoHS) | 1 | Q120 | B7H |
| 707 | 3401002000990 | Transistor 2SC5108-Y(TE85L.F)(RoHS) | 1 | Q124 | T8I |
| 708 | 3401002000990 | Transistor 2SC5108-Y(TE85L.F)(RoHS) | 1 | Q126 | B8F |
| 709 | 3403002000000 | Transistor 2SB1132FD5T100R(RoHS) | 1 | Q131 | B5J |
| 710 | 3403002000000 | Transistor 2SB1132FD5T100R(RoHS) | 1 | Q132 | B5K |
| 711 | 3604025004350 | PLL ADF4111BRUZ 1.2GHz(RoHS) | 1 | IC801 | T8G |
| 712 | 3605002057290 | Operational amplifier TC75W51FU(RoHS) | 1 | IC108 | T8C |
| 713 | 3605008005120 | Operational amplifier NJM4558M(RoHS) | 1 | IC109 | B6G |
| 714 | 3606045000000 | D/A convertor M62364FP#D(RoHS) | 1 | IC125 | T5E |
| 715 | 3608015005600 | Power management IC XC62FP3502PR 3V(RoHS) | 1 | IC111 | T8F |
| 716 | 3609018001090 | IC BU4066BCFV Quad analog switch IC(RoHS) | 1 | IC121 | T7C |
| 717 | 3612031004460 | Memory AT29C040A-90TU(RoHS) | 1 | IC103 | B9M |
| 718 | 3609018000010 | DTMF decoder BU8872FS SSOP(RoHS) | 1 | IC122 | B6L |
| 719 | 3701016850020 | TCXO 16.8MHz TCVCXO(RoHS) | 1 | X101 | B9H |
| 720 | 3701098340020 | Crystal 9.8304MHz NX8045GB(RoHS) | 1 | X102 | B9J |
| 721 | 3701368630000 | Crystal oscillator 3.6864MHz NX1255(RoHS) | 1 | X103 | T9B |
| 722 | 5202005100000 | Socket 53398-0571 5pin(RoHS) | 1 | J112 | T5C |
| 723 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP104 | B9L |
| 724 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP106 | B9L |
| 725 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP107 | B9L |
| 726 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP108 | B9L |

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| 727 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP110 | B9K |
| 728 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP126 | B7L |
| 729 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP127 | B7L |
| 730 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP128 | B7K |
| 731 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP129 | B9K |
| 732 | 3005051020000 | Integrated resistor RTA02-2D102JTH 1K(RoHS) | 1 | CP130 | B8K |
| 733 | 3210306101000 | Chip inductor LQG18HNR10J00(RoHS) | 1 | L118 | T8H |
| 734 | 3213212102000 | Chip inductor NLV25T-1R0J-PF(RoHS) | 1 | L141 | B6F |
| 735 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L101 | B9M |
| 736 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L102 | T4H |
| 737 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L105 | B7L |
| 738 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L106 | B7K |
| 739 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L107 | B10N |
| 740 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L136 | B10F |
| 741 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L143 | B9H |
| 742 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L144 | B8M |
| 743 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L145 | B7L |
| 744 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L146 | B7L |
| 745 | 3221506601000 | Chip ferrite bead BLM18AG601SN1 600Ω(RoHS) | 1 | L801 | T8H |
| 746 | 3303020100020 | Switching diode MA2S11100L(RoHS) | 1 | D129 | B7K |
| 747 | 3303020100020 | Switching diode MA2S11100L(RoHS) | 1 | D801 | B8H |
| 748 | 3401002000140 | Transistor 2SC4215-Y(TE85L,F)(RoHS) | 1 | Q118 | B6F |
| 749 | 3403003000000 | Transistor 2SC2412K NPN(RoHS) | 1 | Q119 | T6H |
| 750 | 3403003000000 | Transistor 2SC2412K NPN(RoHS) | 1 | Q121 | B7J |
| 751 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q135 | B3L |
| 752 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q136 | B2K |
| 753 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q137 | B3K |
| 754 | 3403007000140 | Transistor DTA114EKA PNP(RoHS) | 1 | Q141 | B3M |
| 755 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q101 | B3M |
| 756 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q104 | B4K |
| 757 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q105 | B6K |
| 758 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q108 | T7C |
| 759 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q109 | T7B |
| 760 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q110 | B5J |
| 761 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q111 | B5K |
| 762 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q115 | B5L |
| 763 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q801 | B8H |
| 764 | 3403008000010 | Transistor DTC114EE(TL) NPN(RoHS) | 1 | Q802 | B8H |
| 765 | 3613034001060 | Baseband processor AK2346-E2(RoHS) | 1 | IC106 | T9B |
| 766 | 3612031004440 | Memory AT24C64AN-10SU-2.7(RoHS) | 1 | IC105 | B7J |
| 767 | 3608002005490 | Power Management IC(DC) TA78L09F(RoHS) | 1 | IC114 | B9I |
| 768 | 3605002054790 | Operational amplifier TA75W558FU(RoHS) | 1 | IC107 | T7D |
| 769 | 3605002054590 | Operational amplifier TA75W01FU(RoHS) | 1 | IC118 | B5E |
| 770 | 3503010000010 | FET 2SJ243-T1-A(RoHS) | 1 | Q143 | B5M |
| 771 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q106 | B7G |
| 772 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q112 | B3L |
| 773 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q113 | B3L |
| 774 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q134 | B2L |
| 775 | 3403008000150 | Transistor DTC114EKA NPN(RoHS) | 1 | Q139 | B2L |
| 776 | 3408002000010 | Transistor 2SC3357-T1-A-RF(RoHS) | 1 | Q125 | B6C |
| 777 | 3408002000010 | Transistor 2SC3357-T1-A-RF(RoHS) | 1 | Q127 | B5G |
| 778 | 3408002000010 | Transistor 2SC3357-T1-A-RF(RoHS) | 1 | Q128 | B5I |

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| 779 | 3408002000010 | Transistor 2SC3357-T1-A-RF(RoHS) | 1 | Q147 | B8D |
| 780 | 3408002000010 | Transistor 2SC3357-T1-A-RF(RoHS) | 1 | Q601 | T7M |
| 781 | 3403008000180 | Transistor DTC363EU NPN(RoHS) | 1 | Q114 | B5L |
| 782 | 3403008000180 | Transistor DTC363EU NPN(RoHS) | 1 | Q157 | T5D |
| 783 | 3003061040000 | Thermistor NCP18WF104J03RB(RoHS) | 1 | TH101 | T5M |
| 784 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C372 | T8F |
| 785 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C373 | T9F |
| 786 | 3103992260040 | Electrolytic capacitor VH1C220MF7R 22U(RoHS) | 1 | C396 | T5F |
| 787 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C376 | T2D |
| 788 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C401 | T2C |
| 789 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C408 | T6C |
| 790 | 3103994760080 | Electrolytic capacitor VH1E470MF3R 47U(RoHS) | 1 | C409 | T5C |
| 791 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q102 | B2K |
| 792 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q117 | B9J |
| 793 | 3503020000030 | FET 2SK1824-T1-A(RoHS) | 1 | Q140 | B6F |
| 794 | 3302030500000 | Zener diode UDZSTE(1710B)10V(RoHS) | 1 | D112 | B2L |
| 795 | 3302030500010 | Zener diode UDZSTE(1715B)15V(RoHS) | 1 | D121 | B2K |
| 796 | 3302030500020 | Zener diode UDZSTE(1718B)18V(RoHS) | 1 | D136 | B3K |
| 797 | 3302030500030 | Zener diode UDZSTE(175.1B) (RoHS) | 1 | D107 | B10F |
| 798 | 3302030500030 | Zener diode UDZSTE(175.1B) (RoHS) | 1 | D108 | B10F |
| 799 | 3302030500030 | Zener diode UDZSTE(175.1B) (RoHS) | 1 | D113 | T4H |
| 800 | 3399990000240 | Zener diode UDZSTE(174.7B)(RoHS) | 1 | D120 | T6H |
| 801 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D101 | B5E |
| 802 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D109 | B2L |
| 803 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D118 | B3M |
| 804 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D123 | B5F |
| 805 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D130 | B6J |
| 806 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D131 | B9I |
| 807 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D132 | B3K |
| 808 | 3303010500040 | Switching diode 1SS355(TE17) SOD(RoHS) | 1 | D133 | B2K |
| 809 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D102 | T8D |
| 810 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D103 | T7D |
| 811 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D105 | B3A |
| 812 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D106 | B3B |
| 813 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D110 | B6J |
| 814 | 3303020100060 | Switching diode MA3J74200L 30V(RoHS) | 1 | D111 | B7F |
| 815 | 3399010600000 | Diode HSB123TR-E(RoHS) | 1 | D104 | B5H |
| 816 | 3401001000490 | Transistor 2SA1832-GR(RoHS) | 1 | Q806 | B8H |
| 817 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q116 | T10J |
| 818 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q123 | B8I |
| 819 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q803 | T8H |
| 820 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q804 | T9I |
| 821 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q805 | T9H |
| 822 | 3401002000290 | Transistor 2SC4116-GR(RoHS) | 1 | Q807 | T9I |
| 823 | 3244599451000 | Frequency detector coil 450KHZ(049798713)(RoHS) | 1 | L135 | T6I |
| 824 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L116 | T9K |
| 825 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L117 | T8L |
| 826 | 3244599682000 | Transmission coil 4BLH(49798682)(RoHS) | 1 | L126 | T10L |
| 827 | 3403007000000 | Transistor DTA114EE(TL) PNP(RoHS) | 1 | Q133 | B6K |
| 828 | 4001000000130 | Fuse MINISMDC110F(RoHS) | 1 | F101 | B1K |
| 829 | 4001000000120 | Fuse MINISMDC075F(RoHS) | 1 | F103 | B10G |
| 830 | 3608002020890 | Power Management IC TA7805F(RoHS) | 1 | IC113 | T4B |

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| 831 | 3607002000180 | Dual D-type flip flop TC4013BF(RoHS) | 1 | IC127 | B3L |
| 832 | 3605008001690 | Operational amplifier NJM2904M 2运放(RoHS) | 1 | IC110 | T6E |
| 833 | 3605002057090 | Operational amplifier TA75S01F(RoHS) | 1 | IC116 | T8D |
| 834 | 3605002057090 | Operational amplifier TA75S01F(RoHS) | 1 | IC117 | B8I |
| 835 | 3605008005070 | Operational amplifier NJM2904V 2运放(RoHS) | 1 | IC104 | T9D |
| 836 | 3605008005070 | Operational amplifier NJM2904V 2运放(RoHS) | 1 | IC130 | B6K |
| 837 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D114 | T8I |
| 838 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D117 | T7I |
| 839 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D119 | B6C |
| 840 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D122 | B6C |
| 841 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D138 | B6E |
| 842 | 3303060300010 | Switching diode HVC131TRF-E(RoHS) | 1 | D139 | B6E |
| 843 | 3303030100020 | Switching diode DAN235E SOT-416(RoHS) | 1 | D115 | T6H |
| 844 | 3303030100020 | Switching diode DAN235E SOT-416(RoHS) | 1 | D116 | T6F |
| 845 | 3603002005440 | IF processor TA31136FNG(RoHS) | 1 | IC119 | T8H |
| 846 | 3501030000000 | FET 2SJ506STR-E(RoHS) | 1 | Q142 | T3D |
| 847 | 3001164720000 | Chip resistor 2010 4.7KΩ J 1/2W(RoHS) | 1 | R359 | T4D |
| 848 | 3101082700000 | Chip capacitor 1206 27PF J 500V(RoHS) | 1 | C168 | T4K |
| 849 | 3101082700000 | Chip capacitor 1206 27PF J 500V(RoHS) | 1 | C263 | T5N |
| 850 | 410M8001011F0 | TM-800V Main board PCB(RoHS) | 1 | | |
| 851 | 3701041940010 | Crystal 4.194304MHz(RoHS) | 1 | X104 | B6L |
| 852 | 3101063000010 | Chip capacitor 0603 30PF J 50V(RoHS) | 1 | C147 | B5H |
| 853 | 3001063900000 | Chip resistor 0603 39Ω J 1/10W(RoHS) | 1 | R151 | B5G |
| 854 | 3101081020010 | Chip capacitor 631R18N102KV4E(RoHS) | 1 | C169 | T5K |
| 855 | 3101081020010 | Chip capacitor 631R18N102KV4E(RoHS) | 1 | C170 | T4M |
| 856 | 3610045000200 | SCM M3062LFGPGP(RoHS) | 1 | IC120 | B8L |
| 857 | 3101061050000 | Chip capacitor 0603 1UF Z 25V(RoHS) | 1 | C438 | T5D |
| 858 | 3101065630000 | Chip capacitor 0603 0.056uF(RoHS) | 1 | C186 | T8D |
| 859 | 3001065620000 | Chip resistor 0603 5.6KΩ D 1/10W(RoHS) | 1 | R460 | T5D |
| 860 | 3001061510000 | Chip resistor 0603 150Ω J 1/10W(RoHS) | 1 | R307 | B7C |
| 861 | 3001061510000 | Chip resistor 0603 150Ω J 1/10W(RoHS) | 1 | R308 | B7C |
| 862 | 3001068200000 | Chip resistor 0603 82Ω J 1/10W(RoHS) | 1 | R253 | B6C |
| 863 | 3511990000000 | FET PMBFJ308(RoHS) | 1 | Q138 | T9L |
| 864 | 3511990000000 | FET PMBFJ308(RoHS) | 1 | Q144 | T9L |
| 865 | 3511990000000 | FET PMBFJ308(RoHS) | 1 | Q145 | T9L |
| 866 | 3511990000000 | FET PMBFJ308(RoHS) | 1 | Q146 | T9L |
| 867 | 3214307270010 | Chip inductor C2012C-27NG 27nH(RoHS) | 1 | R133 | T10M |
| 868 | 3101061810010 | Chip capacitor C1608COG1H181J(RoHS) | 1 | C148 | B5I |
| 869 | 3101061810010 | Chip capacitor C1608COG1H181J(RoHS) | 1 | C192 | T7E |
| 870 | 3104204760030 | Tantalum capacitor NRC476M16R12(RoHS) | 1 | C385 | T10K |
| 871 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C370 | B9H |
| 872 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C379 | T7D |
| 873 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C383 | T8D |
| 874 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C384 | T8D |
| 875 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C386 | T7H |
| 876 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C390 | T8D |
| 877 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C391 | B6G |
| 878 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C392 | B7F |
| 879 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C397 | T4B |
| 880 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C404 | B8J |
| 881 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C405 | T8C |
| 882 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C406 | T5D |

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| 883 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C435 | T5D |
| 884 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C460 | B5K |
| 885 | 3104084750070 | Tantalum capacitor TEESVA1C475M8R(RoHS) | 1 | C461 | B6K |
| 886 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C123 | T10K |
| 887 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C381 | T9C |
| 888 | 3104082260060 | Tantalum capacitor TAJA226M010RNJ(RoHS) | 1 | C395 | T5D |
| 889 | 3104081050080 | Tantalum capacitor TEESVA1V105M8R(RoHS) | 1 | C378 | T8B |
| 890 | 3104081050080 | Tantalum capacitor TEESVA1V105M8R(RoHS) | 1 | C380 | T8A |
| 891 | 3104081050090 | Tantalum capacitor TEESVA1C105M8R(RoHS) | 1 | C393 | B6J |
| 892 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C298 | B2L |
| 893 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C369 | T9D |
| 894 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C382 | T8F |
| 895 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C389 | B7L |
| 896 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C810 | T8H |
| 897 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C811 | T9H |
| 898 | 3104081040020 | Tantalum capacitor TEESVA1V104M8R(RoHS) | 1 | C808 | T9H |
| 899 | 3002994730080 | Trimmer resistor TMC3KJ-B47K-TR(RoHS) | 1 | VR101 | T5J |
| 900 | 9900000001340 | Lead-free solder paste (conventional) FLY905-T1(RoHS | 1 | | |
| 901 | 3104081560050 | Tantalum capacitor TEESVA1A156M8R(RoHS) | 1 | C387 | T6I |
| 902 | 3104084740020 | Tantalum capacitor F931E474MAA(RoHS) | 1 | C806 | T9I |
| 903 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R186 | T6D |
| 904 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R449 | B6K |
| 905 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R450 | B6K |
| 906 | 3001063930010 | Chip resistor 0603 39KΩ J 1/10W(RoHS) | 1 | R453 | B6K |
| 907 | 3411002000020 | Transistor 2SC5343EG NPN(RoHS) | 1 | Q150 | T7D |
| 908 | 3303020100080 | Switching diode MA2S077G0L(RoHS) | 1 | R270 | B7K |
| 909 | 3001061240010 | Chip resistor 0603 120KΩ J 1/10W(RoHS) | 1 | R319 | T6D |
| 910 | 3104083350070 | Tantalum capacitor TEESVA1A335M8R(RoHS) | 1 | C399 | B3M |
| 911 | 3001069130010 | Chip resistor 0603 91KΩ J 1/10W(RoHS) | 1 | R448 | B6K |
| 912 | 3609999000330 | Reset supervisory IC CN813LESA 4.65V(RoHS) | 1 | IC129 | T7C |
| 913 | 3104242250000 | Tantalum capacitor TAJA225K016RNJ(RoHS) | 1 | C809 | T8G |
| 914 | 3104084750040 | Tantalum capacitor1206 4.7uF K 16V(RoHS) | 1 | C398 | B9I |
| 915 | 3104084750040 | Tantalum capacitor1206 4.7uF K 16V(RoHS) | 1 | C402 | B4L |
| 916 | 3104084750040 | Tantalum capacitor1206 4.7uF K 16V(RoHS) | 1 | C805 | B7H |
| 917 | 5202020100050 | Connector DF12E(3.5)-20DP-0(RoHS) | 1 | J105 | T8E |

| Parts List for TM-800 Control Panel | | | | | |
|---|---|---|---|---|---|
| No. | Material No. | Description | Qty. | Ref No. | Print No. |
| 1 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R505 | B2H |
| 2 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R506 | B2F |
| 3 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R511 | B2F |
| 4 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R522 | B2F |
| 5 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R540 | B3F |
| 6 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R548 | B3I |
| 7 | 3001060000000 | Chip resistor 0603 0Ω J 1/10W(RoHS) | 1 | R555 | B3H |
| 8 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R532 | B4G |
| 9 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R533 | B4G |
| 10 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R534 | B4G |
| 11 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R535 | B4G |
| 12 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R536 | B4G |
| 13 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R537 | B4G |
| 14 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R538 | B2D |
| 15 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R539 | B1E |
| 16 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R541 | B3J |
| 17 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R542 | B2F |
| 18 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R543 | B2E |
| 19 | 3001061020010 | Chip resistor 0603 1KΩ J 1/10W(RoHS) | 1 | R544 | B1I |
| 20 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R508 | B3F |
| 21 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R509 | B2F |
| 22 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R510 | B2F |
| 23 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R602 | B3H |
| 24 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R603 | B3H |
| 25 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R604 | B3H |
| 26 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R605 | B2G |
| 27 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R606 | B1G |
| 28 | 3001061030010 | Chip resistor 0603 10KΩ J 1/10W(RoHS) | 1 | R607 | B2F |
| 29 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R501 | B3H |
| 30 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R502 | B4I |
| 31 | 3001061040010 | Chip resistor 0603 100KΩ J 1/10W(RoHS) | 1 | R503 | B4I |
| 32 | 3001061810000 | Chip resistor 0603 180Ω J 1/10W(RoHS) | 1 | R512 | B2F |
| 33 | 3001061810000 | Chip resistor 0603 180Ω J 1/10W(RoHS) | 1 | R513 | B2F |
| 34 | 3001062240010 | Chip resistor 0603 220KΩ J 1/10W(RoHS) | 1 | R549 | B4I |
| 35 | 3001062730010 | Chip resistor 0603 27KΩ J 1/10W(RoHS) | 1 | R521 | B1E |
| 36 | 3001063330010 | Chip resistor 0603 33KΩ J 1/10W(RoHS) | 1 | R559 | B2J |
| 37 | 3001063920000 | Chip resistor 0603 3.9KΩ J 1/10W(RoHS) | 1 | R507 | B3G |
| 38 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R547 | B2H |
| 39 | 3001064720000 | Chip resistor 0603 4.7KΩ J 1/10W(RoHS) | 1 | R560 | B2J |
| 40 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R514 | B3G |
| 41 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R515 | B3G |
| 42 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R516 | B1I |

| | | | | | |
|---|---|---|---|---|---|
| 43 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R517 | B1I |
| 44 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R524 | B1G |
| 45 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R525 | B3G |
| 46 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R526 | B1G |
| 47 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R527 | B3G |
| 48 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R528 | B3G |
| 49 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R529 | B3G |
| 50 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R530 | B3G |
| 51 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R531 | B3G |
| 52 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R551 | B2H |
| 53 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R552 | B1H |
| 54 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R553 | B1H |
| 55 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R554 | B1H |
| 56 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R556 | B2H |
| 57 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R557 | B2F |
| 58 | 3001064730000 | Chip resistor 0603 47KΩ J 1/10W(RoHS) | 1 | R601 | B2J |
| 59 | 3001065620010 | Chip resistor 0603 5.6KΩ J 1/10W(RoHS) | 1 | R504 | B2H |
| 60 | 3001066820000 | Chip resistor 0603 6.8KΩ J 1/10W(RoHS) | 1 | R558 | B1D |
| 61 | 3001161010000 | Chip resistor 2010 100Ω 1/2W(RoHS) | 1 | R545 | B3F |
| 62 | 3001162290000 | Chip resistor 2010 2.2Ω J 1/2W(RoHS) | 1 | R518 | B2D |
| 63 | 3001162290000 | Chip resistor 2010 2.2Ω J 1/2W(RoHS) | 1 | R519 | B3D |
| 64 | 3001162700000 | Chip resistor 2010 27Ω J 1/2W(RoHS) | 1 | R520 | B1D |
| 65 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C515 | B2F |
| 66 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C516 | B2F |
| 67 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C524 | B3E |
| 68 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C526 | B2E |
| 69 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C530 | B3I |
| 70 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C531 | B3J |
| 71 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C532 | B3I |
| 72 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C533 | B3I |
| 73 | 3101061010010 | Chip capacitor GRM1885C1H101JA01(RoHS) | 1 | C534 | B3J |
| 74 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C506 | B2G |
| 75 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C519 | B3E |
| 76 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C520 | B3E |
| 77 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C521 | B3E |
| 78 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C522 | B4J |
| 79 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C523 | B3E |
| 80 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C525 | B3E |
| 81 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C527 | B2E |
| 82 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C528 | B3I |
| 83 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C529 | B3J |
| 84 | 3101061020000 | Chip capacitor GRM188R71H102KA01(RoHS) | 1 | C538 | B4G |
| 85 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C502 | B2H |
| 86 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C509 | B3F |

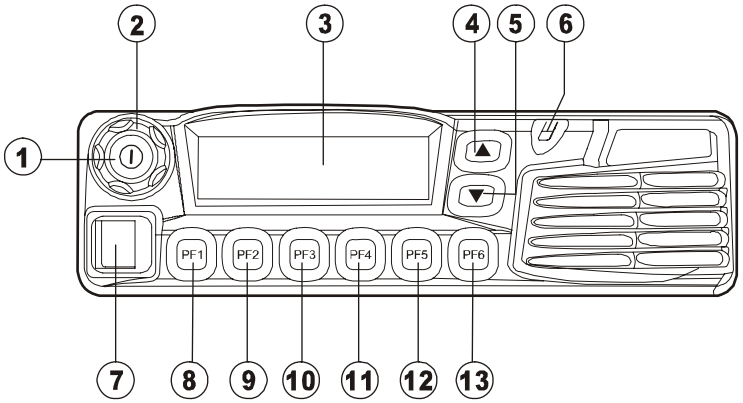
| | | | | | |
|---|---|---|---|---|---|
| 87 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C510 | B3F |
| 88 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C511 | B1I |
| 89 | 3101061030010 | Chip capacitor 0603 0.01UF K 25V(RoHS) | 1 | C512 | B1I |
| 90 | 3101061050060 | Chip capacitor 0603 1UF K 10V (RoHS) | 1 | C503 | B4I |
| 91 | 3101061050060 | Chip capacitor 0603 1UF K 10V (RoHS) | 1 | C550 | B2H |
| 92 | 3101062200010 | Chip capacitor 0603 22PF J 50V (RoHS) | 1 | C505 | B2H |
| 93 | 3101062200010 | Chip capacitor 0603 22PF J 50V (RoHS) | 1 | C517 | B2H |
| 94 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C507 | B1D |
| 95 | 3101064710000 | Chip capacitor GRM188R71H471KA01(RoHS) | 1 | C508 | B1D |
| 96 | 3101066800000 | Chip capacitor 0603 68PF J 50V(RoHS) | 1 | C518 | B2H |
| 97 | 3213212102000 | Multi-layer chip inductor 1uH NLV25T-1(RoHS) | 1 | L502 | B3I |
| 98 | 3213212102000 | Multi-layer chip inductor 1uH NLV25T-1(RoHS) | 1 | L503 | B4J |
| 99 | 3221506601000 | Chip ferrite bead 0603 600Ω±25%(RoHS) | 1 | L501 | B2H |
| 100 | 3221506601000 | Chip ferrite bead 0603 600Ω±25%(RoHS) | 1 | L504 | B1G |
| 101 | 3302030500020 | Zener diode UDZSTE(1718B)18V(RoHS) | 1 | D517 | B4J |
| 102 | 3302030500020 | Zener diode UDZSTE(1718B)18V(RoHS) | 1 | D519 | B2J |
| 103 | 3307110300000 | LED KAA-3528SURK(RoHS) | 1 | D515 | T1H |
| 104 | 3307110600000 | LED KP-1608SRC-P(RoHS) | 1 | D506 | T4G |
| 105 | 3307110600000 | LED KP-1608SRC-P(RoHS) | 1 | D507 | T2F |
| 106 | 3307110600000 | LED KP-1608SRC-P(RoHS) | 1 | D511 | T1F |
| 107 | 3307110600000 | LED KP-1608SRC-P(RoHS) | 1 | D512 | T4B |
| 108 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D501 | B2F |
| 109 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D502 | B2F |
| 110 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D503 | B2F |
| 111 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D504 | B2F |
| 112 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D514 | B2F |
| 113 | 3399010600000 | Diode HSB123TR-E (RoHS) | 1 | D516 | B2F |
| 114 | 3403002000000 | Transistor 2SB1132FD5T100R (RoHS) | 1 | Q501 | B3F |
| 115 | 3403003000060 | Transistor 2SC4617TLS (RoHS) | 1 | Q503 | B2F |
| 116 | 3403003000060 | Transistor 2SC4617TLS (RoHS) | 1 | Q504 | B2F |
| 117 | 3403008000010 | Transistor DTC114EE(TL) (RoHS) | 1 | Q502 | B2G |
| 118 | 3403008000010 | Transistor DTC114EE(TL) (RoHS) | 1 | Q508 | B3G |
| 119 | 3403008000070 | Transistor DTC144EE(TL) (RoHS) | 1 | Q509 | B2J |
| 120 | 3403008000070 | Transistor DTC144EE(TL) (RoHS) | 1 | Q510 | B2J |
| 121 | 3410001000040 | Transistor 2SA1641(S.T) (RoHS) | 1 | Q505 | B1E |
| 122 | 3503010000010 | FET 2SJ243-T1-A P-cha(RoHS) | 1 | Q507 | B4I |
| 123 | 3503020000030 | FET 2SK1824-T1-A N--c(RoHS) | 1 | Q506 | B2H |
| 124 | 3608002020890 | Power Management IC TA7805F(RoHS) | 1 | IC501 | B3E |
| 125 | 3610003000040 | SCM UPD78F0511GB-U(RoHS) | 1 | IC503 | B2G |
| 126 | 3701098340020 | Crystal 9.8304MHz NX8045GB(RoHS) | 1 | X501 | B2H |
| 127 | 5202008100020 | SMT socket 52746-0870 8pin mo(RoHS) | 1 | J503 | B1G |
| 128 | 5202011100010 | SMT socket B11B-ZR-SM4-TF(RoHS) | 1 | J504 | B3E |
| 129 | 3307110100060 | LED KPT-1608SURC(RoHS) | 1 | D505 | T4F |
| 130 | 3307110100060 | LED KPT-1608SURC(RoHS) | 1 | D508 | T4E |

| | | | | | |
|---|---|---|---|---|---|
| 131 | 3307110100060 | LED KPT-1608SURC(RoHS) | 1 | D509 | T4D |
| 132 | 3307110100060 | LED KPT-1608SURC(RoHS) | 1 | D510 | T4C |
| 133 | 4001000000010 | Fuse MINISMDC020F-2(RoHS) | 1 | F501 | B3I |
| 134 | 410M800200520 | TM-800 control panel PCB 1.6T/2L(RoHS) | 1 | | |
| 135 | 3619006004300 | low voltage check IC R3111H421C-T1-F(RoHS) | 1 | IC502 | B3H |
| 136 | 3101062230020 | Chip capacitor 0603 0.022UF K 25(RoHS) | 1 | C501 | B3H |
| 137 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C513 | B2F |
| 138 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C535 | B4I |
| 139 | 3104081060120 | Tantalum capacitor TEESVA1C106M8R(RoHS) | 1 | C537 | B4J |
| 140 | 3002994720030 | Trimmer resistor (2.7*2.0*0.9) 4.7(RoHS) | 1 | VR1 | B1I |
| 141 | 3104084750040 | Tantalum capacitor 1206 4.7uF K 16V(RoHS) | 1 | C514 | B4F |

# Tuning

## 1. Key Functions

### 1-1 Front Panel




1. Power switch. 2. Selector Knob. 3. LCD Display. 4. Up key. 5. Down key.
6. Indicator light. 7. Microphone Jack. 8. PF1 key. 9. PF2 key. 10. PF3 key.
11. PF4 key. 12. PF5 key. 13. PF6 key.

### 1-2 Panel Test Mode

■ **When the Function is Off (▽ does not appear)**

| Controls | Function | Description |
|---|---|---|
| Up | Volume up. | |
| Down | Volume down. | |
| PF1 | Wide/narrow changeover. | |
| PF2 | Noise squelch switch. | When the squelch is open, 🔊 appears. |
| PF3 | Test mode/ Tuning mode changeover. | |
| PF4 | Activate expand function. | After pressing PF4 key, press PF1, PF2 and PF3 to activate the following functions (See the table below). |
| PF5 | Signalling up. | |
| PF6 | Signalling down. | |
| Selector Knob | Test channel up/down. | |

■ **When the Function is On (press PF4, ▽ appears)**

| Controls | Function | Description |
|---|---|---|
| PF1 | Compander on/off. | When compander opens, ▼ appears. |
| PF2 | Beat shift on/off. | When the remove frequency is on, “A” appears. |

| | | |
|---|---|---|
| PF3 | MSK 1200/2400bps changeover. | When MSK is 2400bps，“✉” appears. |
| PF4 | Return to test mode. | |
| PF5 | No function. | |
| PF6 | No function. | |

### 1-3 Panel Tuning Mode

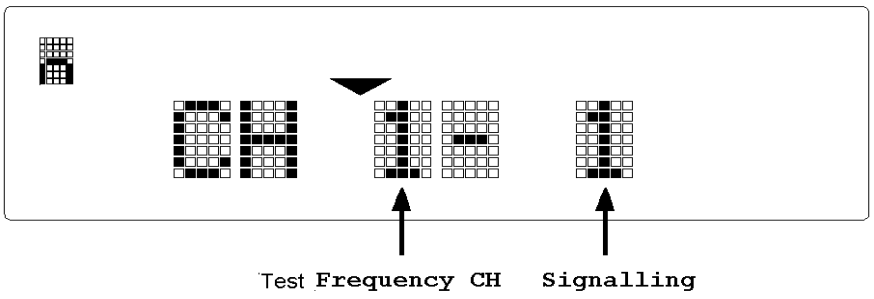
| Controls | Function | Description |
|---|---|---|
| Up | Volume up. | |
| Down | Volume down. | |
| PF1 | Test mode/tuning mode changeover. | |
| PF2 | Noise squelch switch. | When the squelch is on, 🔊 appears. |
| PF3 | No function. | |
| PF4 | Tuning item down. | |
| PF5 | Tuning item up. | |
| PF6 | Tuning value is saved and then move to the next tuning item. | |
| Selector Knob | Tuning value up/down. | |

## 2. Panel Test Mode

The transceiver’s transmission output, receiver sensitivity, and other items are measured and QT, DQT, 2-Tone, MSK and DTMF signalling is decoded in this mode.

### 2-1. To Enter the Test Mode

Hold down [PF2] key and turn the power switch on to enter test mode. The test frequency channel and test signalling channel will be displayed.




### 2-2. Test Frequency Channel (MHz)

In this mode, the test channel frequency (center(C)、low(L)、high(H) frequency) can be modified through

the programming software.

| Model | RX/TX | 1 ( C ) | 2 ( L ) | 3 ( H ) | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 136-174M (V) | RX(MHz) | 155.15 | 136.15 | 173.85 | 145.55 | 164.55 | 155.00 | 155.20 | 155.40 |
| | TX(MHz) | 155.00 | 136.00 | 174.00 | 145.50 | 164.50 | 155.00 | 155.20 | 155.40 |
| 450-512M (U2) | RX(MHz) | 481.15 | 450.15 | 511.85 | 465.55 | 496.55 | 481.00 | 481.20 | 481.40 |
| | TX(MHz) | 481.00 | 450.00 | 512.00 | 465.50 | 496.50 | 481.00 | 481.20 | 481.40 |
| 350-400M (U5) | RX(MHz) | 375.15 | 350.15 | 399.85 | 362.55 | 387.55 | 375.00 | 375.20 | 375.40 |
| | TX(MHz) | 375.00 | 350.00 | 400.00 | 362.50 | 387.50 | 375.00 | 375.20 | 375.40 |
| 400-470M (U1) | RX(MHz) | 435.15 | 400.15 | 469.85 | 417.55 | 452.55 | 435.00 | 435.20 | 435.40 |
| | TX(MHz) | 435.00 | 400.00 | 470.00 | 417.50 | 452.50 | 435.00 | 435.20 | 435.40 |
| 440-490M (U4) | RX(MHz) | 465.15 | 440.15 | 489.85 | 452.55 | 477.55 | 465.00 | 465.20 | 465.40 |
| | TX(MHz) | 465.00 | 440.00 | 490.00 | 452.50 | 477.50 | 465.00 | 465.20 | 465.40 |
| 480-526M (U3) | RX(MHz) | 503.15 | 480.15 | 525.85 | 491.75 | 515.25 | 503.00 | 503.20 | 503.40 |
| | TX(MHz) | 503.00 | 480.00 | 526.00 | 491.70 | 515.20 | 503.00 | 503.20 | 503.40 |
| 380-430M (U6) | RX(MHz) | 405.15 | 380.15 | 429.85 | 392.55 | 417.55 | 405.00 | 405.20 | 405.40 |
| | TX(MHz) | 405.00 | 380.00 | 430.00 | 392.50 | 417.50 | 405.00 | 405.20 | 405.40 |
| 450-520M (U7) | RX(MHz) | 485.15 | 450.15 | 519.85 | 467.55 | 502.55 | 485.00 | 485.20 | 485.40 |
| | TX(MHz) | 485.00 | 450.00 | 520.00 | 467.50 | 502.50 | 485.00 | 485.20 | 485.40 |

# 3. Panel Tuning Mode

The Transceiver is adjusted in this mode.

## 3-1 To Enter The Panel Tuning Mode.

Press the [PF3] key in the panel test mode.

The adjustment items, the frequency and signalling, other than the maximum deviation and sensitivity, return to the values that were effective for the test frequency channel and test signalling channel before entering the panel tuning mode.

| No. | Adjust Item | LCD Display |
|---|---|---|
| 1 | Frequency stability | Frequency |

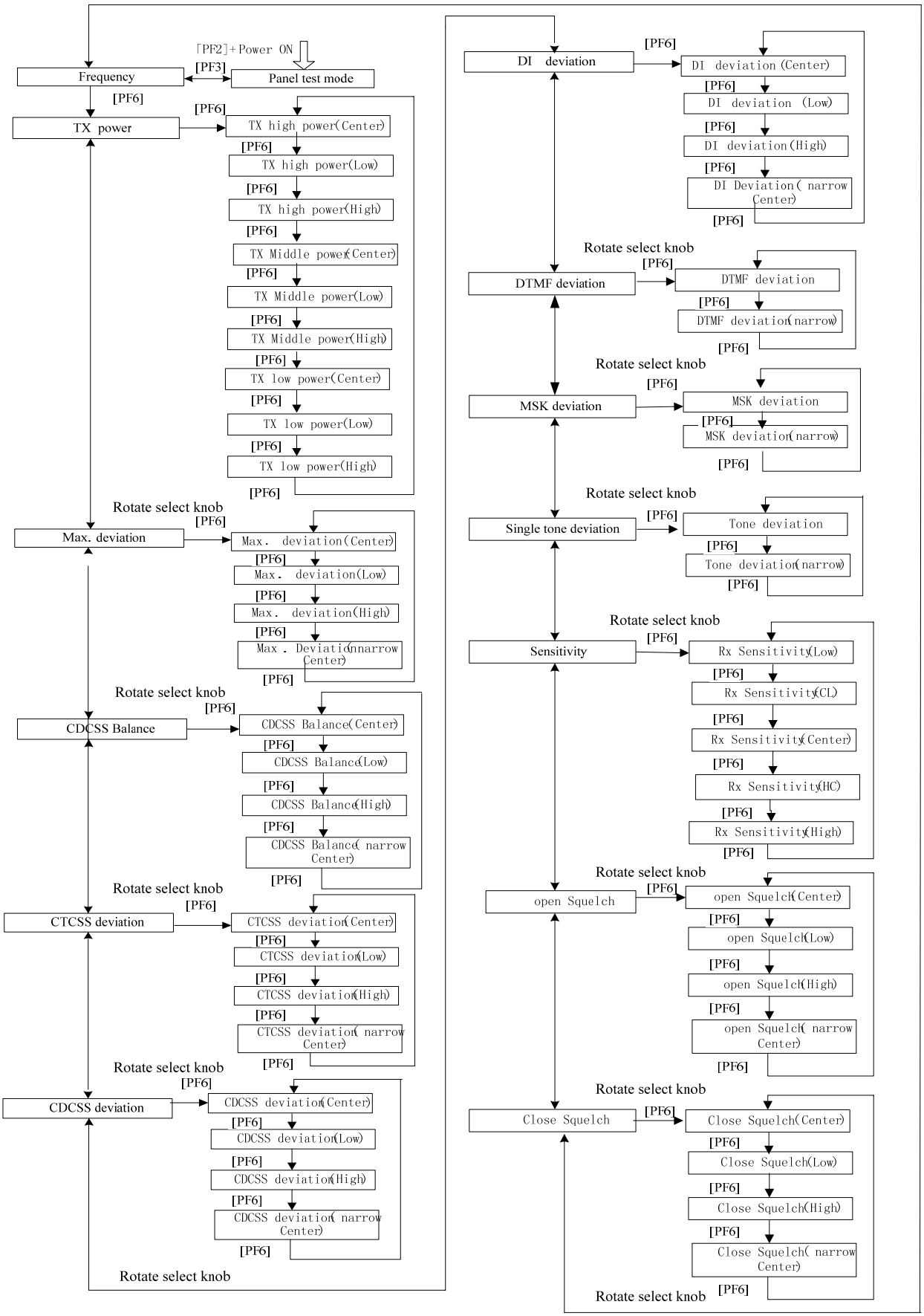
| | | |
|---|---|---|
| 2 | TX power | Tx Power |
| 3 | Max. frequency deviation | Max.Deviate |
| 4 | CDCSS balance | CDCSSBalance |
| 5 | CTCSS frequency deviation | CTCSSDeviate |
| 6 | CDCSS frequency deviation | CDCSSDeviate |
| 7 | DTMF frequency deviation | DTMFDeviate |
| 8 | MSK frequency deviation | MSK Deviate |
| 9 | Single tone frequency deviation | Tone Deviate |
| 10 | RX sensitivity | Rx Sensitivi |
| 11 | Squelch open level | Open SQL |
| 12 | Squelch close level | Close SQL |
| 13 | Rssi level | Rssi |
| 14 | DI Deviation | DI Deviation |

### 3-2. Tuning Item and Display

Refer to “5. Setting Items” in “Test Mode”.

### 3-3. Flow Chart

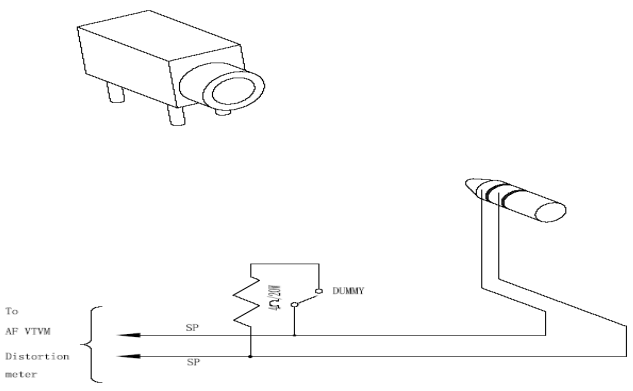
1. ◄► : Use the [PF4] and [PF5] keys.
2. ► : Use the [PF6] key.
3. Use the [SELECTOR] knob to set an adjustment value (1 to 256) for each adjustment item.
4. Use the [PF6] key to move to the next item.


「PF2」+Power ON
Frequency
[PF3]
Panel test mode
[PF6]
TX power
TX high power(Center)
TX high power(Low)
TX high power(High)
TX Middle power(Center)
TX Middle power(Low)
TX Middle power(High)
TX low power(Center)
TX low power(Low)
TX low power(High)
Rotate select knob
Max. deviation
Max. deviation(Center)
Max. deviation(Low)
Max. deviation(High)
Max . Deviation(narrow Center)
CDCSS Balance
CDCSS Balance(Center)
CDCSS Balance(Low)
CDCSS Balance(High)
CDCSS Balance( narrow Center)
CTCSS deviation
CTCSS deviation(Center)
CTCSS deviation(Low)
CTCSS deviation(High)
CTCSS deviation( narrow Center)
CDCSS deviation
CDCSS deviation(Center)
CDCSS deviation(Low)
CDCSS deviation(High)
CDCSS deviation( narrow Center)
Rotate select knob
DI deviation
DI deviation (Center)
DI deviation (Low)
DI deviation(High)
DI Deviation( narrow Center)
DTMF deviation
DTMF deviation
DTMF deviation(narrow)
MSK deviation
MSK deviation
MSK deviation(narrow)
Single tone deviation
Tone deviation
Tone deviation(narrow)
Sensitivity
Rx Sensitivity(Low)
Rx Sensitivity(CL)
Rx Sensitivity(Center)
Rx Sensitivity(HC)
Rx Sensitivity(High)
open Squelch
open Squelch(Center)
open Squelch(Low)
open Squelch(High)
open Squelch( narrow Center)
Close Squelch
Close Squelch(Center)
Close Squelch(Low)
Close Squelch(High)
Close Squelch( narrow Center)

# 4. Test Equipment Required for Alignment

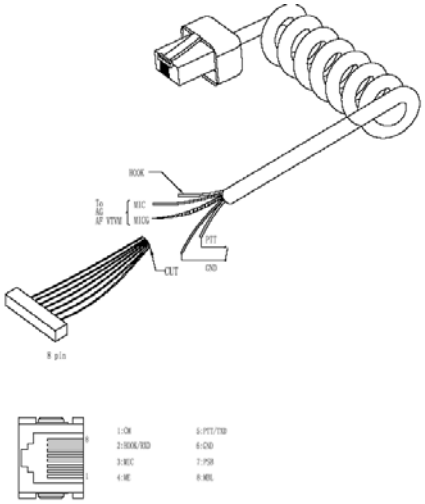
| Test Equipment | Method | Major Specifications |
|---|---|---|
| Standard Signal Generator (SSG) | Frequency<br>Modulation<br>Output | 136 to 526 MHz<br>Frequency modulation and external modulation<br>0.1uV to greater than 1mV |
| Power Meter | Input Impedance<br>Operation Frequency<br>Measurement Capability | 50Ω<br>136 to 526 MHz or more<br>Vicinity of 50W |
| Deviation Meter | Frequency Range | 136 to 526 MHz |
| Digital Volt Meter (DVM) | Measuring Range<br>Accuracy | 1 to 20V DC<br>High input impedance for minimum circuit loading |
| Oscilloscope | | DC through 70MHz |
| High Sensitivity Frequency Counter | Frequency Range<br>Frequency Stability | 10Hz to 600MHz<br>0.2ppm or less |
| Ammeter | | 13A or more |
| AF Volt Meter (AF VTVM) | Frequency Range<br>Voltage Range | 50Hz to 10kHz<br>3mV to 3V |
| Audio Generator (AG) | Frequency Range<br>Output | 50Hz to 5kHz<br>0 to 1V |
| Distortion Meter | Capability<br>Input level | 3% or less at 1kHz<br>50mV to 10Vrms |
| Voltmeter | Measuring Range<br>Input Impedance | 10 to 1.5V DC or less<br>50kΩ/V or greater |
| 4Ω Dummy Load | | Approx.4Ω,20W |
| Regulated Power Supply | | 13.6V,approx.20A (adjustable from 9 to 20V)<br>Useful if anneter required |

## 4-1 Test Cable for Speaker Output



### 4-2. Test Cable for Microphone input

The following test cable is recommended.




## 5. Warnings When Removing or Installing the Shield Cover

1. When handling with the shielding cover, do not damage the components on the TX-RX unit.
2. When installing the shielding cover, insert the cover from the rear side.
3. When removing the shielding cover, squeeze the hole marked with an arrow as shown on the diagram and pull it straight up.

# Adjustment Description

The radio can be adjusted by PC programming software or by manual adjustment. Manual adjustment procedure of TM800 is as follows. (Refer to “Test Mode” and “Adjustment mode” in the section Radio Modes.)

**Instrument:**

| | |
|---|---|
| Radio Communication Test Set | 1 set |
| Scanner | 1 set |
| 20A/30V Power Supply | 1 set |
| Digital Voltmeter | 1 set |
| Power Meter | 1 set |
| Signal Line (with dummy load) | 1 pcs |

**Adjustment:**

1. Download

- Connect the radio with PC by programming cable; Turn the radio on.
- Click “Download” on software interface;
- Select the desired program and click “Open”, download starts.
- Click “End” when download is completed.
- Turn the radio off and remove the programming cable.

2. Initialization

It’s necessary to set the frequency and initialize the radio before adjustment because there is no needed information in FLASH ROM when the radio is manufactured.

Turn on the radio with PF2 held down, and then hold down PF3 and PF4 to enter DESTINATION 0. Use the Selector Knob to select DESTINATION n (subject to frequency band desired by the user), and then press PF6. LCD will display “Wait a second…” and a Beep tone will sound to indicate that data is already initialized.

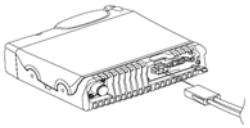
3. Adjustment

Some items can be adjusted in conventional mode and the others in manual adjust mode.

- Turn the power on to enter conventional mode.
- Switch the power off and back on while holding down [PF6], the radio enters manual adjust mode. The channel number is displayed on the LCD.
- Frequency list

| Model | RX/TX | 1 ( C ) | 2 ( L ) | 3 ( H ) | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| 136-174M | RX(MHz) | 155.15 | 136.15 | 173.85 | 145.55 | 164.55 | 155.00 | 155.20 | 155.40 |
| (V) | TX(MHz) | 155.00 | 136.00 | 174.00 | 145.50 | 164.50 | 155.00 | 155.20 | 155.40 |
| 450-512M | RX(MHz) | 481.15 | 450.15 | 511.85 | 465.55 | 496.55 | 481.00 | 481.20 | 481.40 |
| (U2) | TX(MHz) | 481.00 | 450.00 | 512.00 | 465.50 | 496.50 | 481.00 | 481.20 | 481.40 |
| 350-400M | RX(MHz) | 375.15 | 350.15 | 399.85 | 362.55 | 387.55 | 375.00 | 375.20 | 375.40 |
| (U5) | TX(MHz) | 375.00 | 350.00 | 400.00 | 362.50 | 387.50 | 375.00 | 375.20 | 375.40 |
| 400-470M | RX(MHz) | 435.15 | 400.15 | 469.85 | 417.55 | 452.55 | 435.00 | 435.20 | 435.40 |
| (U1) | TX(MHz) | 435.00 | 400.00 | 470.00 | 417.50 | 452.50 | 435.00 | 435.20 | 435.40 |
| 440-490M | RX(MHz) | 465.15 | 440.15 | 489.85 | 452.55 | 477.55 | 465.00 | 465.20 | 465.40 |
| (U4) | TX(MHz) | 465.00 | 440.00 | 490.00 | 452.50 | 477.50 | 465.00 | 465.20 | 465.40 |
| 480-526M | RX(MHz) | 503.15 | 480.15 | 525.85 | 491.75 | 515.25 | 503.00 | 503.20 | 503.40 |
| (U3) | TX(MHz) | 503.00 | 480.00 | 526.00 | 491.70 | 515.20 | 503.00 | 503.20 | 503.40 |
| 380-430M | RX(MHz) | 405.15 | 380.15 | 429.85 | 392.55 | 417.55 | 405.00 | 405.20 | 405.40 |
| (U6) | TX(MHz) | 405.00 | 380.00 | 430.00 | 392.50 | 417.50 | 405.00 | 405.20 | 405.40 |
| 450-520M | RX(MHz) | 485.15 | 450.15 | 519.85 | 467.55 | 502.55 | 485.00 | 485.20 | 485.40 |
| (U7) | TX(MHz) | 485.00 | 450.00 | 520.00 | 467.50 | 502.50 | 485.00 | 485.20 | 485.40 |

**VCO**

<table>
<tr><th rowspan="2">Item</th><th rowspan="2">Condition</th><th colspan="2">Measurement</th><th colspan="2">Adjustment</th><th rowspan="2">Specification / Remarks</th></tr>
<tr><th>Test Instrument</th><th>Terminal</th><th>Part</th><th>Method</th></tr>
<tr><td>1. Power supply</td><td>1.Power supply voltage DC13.6V</td><td colspan="5">  <br>Note: 1. This radio may be installed in negative ground electrical systems only. Reverse polarity will cause the cable fuse to blow. Check the vehicle ground polarity before installation to prevent wasted time and effort.<br>2. If DC power is to be controlled by the vehicle ignition switch, a switching relay should be used to switch the positive power lead. The vehicle ignition switch then controls DC to the relay coil.</td></tr>
<tr><td rowspan="2">2. VCO lock voltage (TX)</td><td>1.CH: TX HI</td><td rowspan="2">Digital Voltmeter</td><td rowspan="2">CV</td><td rowspan="2">TC1</td><td colspan="2">7.1V±0.1V</td><td></td></tr>
<tr><td>2.CH: TX LO</td><td colspan="2">Check</td><td>＞1.8V</td></tr>
</table>

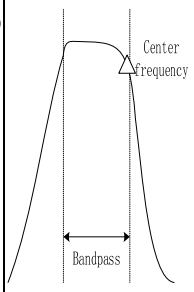
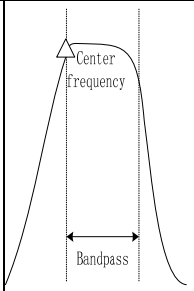
| | | | | | | |
|---|---|---|---|---|---|---|
| 3. VCO lock voltage (RX) | 1.CH: RX HI | Digital Voltmeter | CV | TC2 | 7.1V±0.1V | |
| | 2.CH: RX LO | | | | Check | ＞1.8V |

**Transmitter**

| Item | Condition | Measurement | | Adjustment | | Specification /Remarks |
|---|---|---|---|---|---|---|
| | | Test Instrument | Terminal | Part | Method | |
| 4.TX Frequency | Enter adjustment item “1”, each Ch corresponds to a specific TX Freq | Radio Communication Test Set | ANT | Adjust software settings | Adjust to Ch frequency | Error <50Hz |
| 5.TX Power | Each Ch corresponds to a specific TX Freq, enter adjustment item “2”, adjust H/M/L power | Radio Communication Test Set Ammeter | ANT | Adjust software setting (first value is 220) and VR101, press [PF6] to save and enters the next item. | V:High power: PO=50±0.5W I≤12.0A | Check High power |
| | | | | | U:High power: PO=45±0.5W I≤12.0A | |
| | | | | | Middle power: PO=25±0.5W I≤8.0A | Check Middle power |
| | | | | | Low power: PO=5±0.5W I≤5.0A | Check Low power |
| 6. Max. Deviation | 1. Each Ch corresponds to a specific TX Freq, enter adjustment item “3”, turn to CH (C), CH(L), CH(H), CH(nC) | Radio Communication Test Set FILTER: 0.05-15KHz AF:1KHz 50mV | ANT MIC Jack | Adjust software settings, press [PF6] to save and enters the next item | Check deviation at CH L/C/H: 3.75±0.1KHz (W) | |
| | | | | | Check deviation at CH L/C/H: 1.75±0.1KHz (N) | |
| 7.Modulation Sensitivity | 1.Each Ch corresponds to a specific TX Freq | Radio Communication Test Set FILTER: 0.05-15KHz AF:1KHz 7mV | ANT MIC Jack | | Check deviation: 2.6KHz-3.4KHz (W) 1.3KHz-1.7KHz (N) | Check |
| 8. Modulation Distortion | | | | | ≤3% | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9.CDCSS Balance | Each Ch corresponds to a specific TX Freq, enter adjustment item “4” | Radio Communication Test Set FILTER LPF: 300Hz | ANT | Change CDCSS settings with Selector Knob | | Check waveform |
| 10. CTCSS Deviation | Each Ch corresponds to a specific TX Freq, enter adjustment item “5”, adjust 67Hz/127.3Hz/254.1 HzCTCSS | Radio Communication Test Set FILTER LPF: 300Hz | ANT | Change CTCSS settings with Selector Knob | Adjust deviation to 0.75KHz±0.10KHz (W) 0.37KHz±0.05KHz (N) | |
| 11. CDCSS Deviation | Each Ch corresponds to a specific TX Freq, enter adjustment item“6” | Radio Communication Test Set FILTER LPF: 300Hz | ANT | Change CDCSS settings with Selector Knob | Adjust deviation to 0.75KHz±0.10KHz (W) 0.37KHz±0.05KHz (N) | |
| 12. DTMF Deviation | Each Ch corresponds to a specific TX Freq, enter adjustment item “7” | Radio Communication Test Set FILTER LPF: 3KHz | ANT | Change DTMF settings with Selector Knob | 3.0KHz±0.1KHz (W) 1.5KHz±0.1KHz (N) | |
| 13. MSK | Each Ch corresponds to a specific TX Freq, enter adjustment item “8” | Radio Communication Test Set FILTER LPF: 3KHz | ANT | Change MSK settings with Selector Knob | 3.0KHz±0.1KHz (W) 1.5KHz±0.1KHz (N) | |
| 14. 2-TONE/ 5-TONE | Each Ch corresponds to a specific TX Freq, enter adjustment item “9” | Radio Communication Test Set FILTER LPF: 3KHz | ANT | Change 2-tone/ 5-tone settings with Selector Knob | Adjust deviation to 3.0KHz±0.10KHz (W) 1.5KHz±0.1KHz (N) | |

**Receiver**

| Item | Condition | Measurement | | Adjustment | | Specification /Remarks |
|---|---|---|---|---|---|---|
| | | Test Instrument | Terminal | Part | Method | |
| 15. RF bandpass filter | Enter adjustment item “10”, each Ch corresponds to a specific RX Freq | Scanner | ANT. TP1 | Adjust software settings | V:Adjust the gain to the Max. value, the corresponding freq is on the rightmost to bandpass waveform. Press [PF6] to save. |  |
| | | | | | U: Adjust the gain to the Max. value, the corresponding freq is on the leftmost to bandpass waveform. Press [PF6] to save. |  |
| 16. max SINAD | CH: RX Center, turn to CH1(C); corresponds to a specific RX Freq | Radio Communication Test Set<br>SSG output: -47dBm<br>MOD:1KHz<br>DEV:±3KHz(W)<br>±1.5KHz(N)<br>FILTER:<br>0.3-3.0KHz | ANT<br>SP Jack | L135 | Adjust the L135,make SINAD is max | The max volume : 4.6V or higher |
| 17. Sensitivity | 1.CH: RX Center, turn to CH1(C) in manual adjust mode | Radio Communication Test Set<br>SSG output: -118dBm<br>MOD:1KHz<br>DEV:±3KHz(W)<br>±1.5KHz(N)<br>FILTER: 0.3-3.0KHz | ANT<br>SP Jack | W/N switch (turn on power while holding down [PF6] to enter Channel Set Mode) | [UP]/ [DOWN] to change channel Check | SINAD:<br>12dB or higher |
| | 2. CH: RX LO, turn to CH2(L) in manual adjust mode | | | | | |
| | 3.CH:RX HI, turn to CH3(H) in manual adjust mode | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 18. SQ Open | Enter adjustment item "11", turn to CH (H), CH(C), CH (L) | Radio Communication Test Set SSG output: -120dBm (level 3)<br>SSG output -112dBm (level 9) | ANT SP Jack | Adjust software setting | Adjust software settings at SQL3 and SQL9, and press [PF6] to save. | Press [PF2] to adjust software settings , open the squelch while the value is changeless |
| 19.SQ Close | Enter adjustment item "12", turn to CH (H), CH(C), CH (L) | Radio Communication Test Set SSG output: -122dBm (level 3)<br>SSG output: -114dBm (le`vel 9) | | | Adjust software settings at SQL3 and SQL9, and press [PF6] to save. | Press [PF2] to adjust software settings, close the squelch while the value is changeless |
| 20.RSSI adjustment | Enter adjustment item "12" | Radio Communication Test Set: SSG output: -99dBm MOD:1KHz DEV:±3KHz(W) FILTER: 0.3-3.0KHz | ANT SP Jack | Adjust software setting | Press [PF2] to adjust software settings, and press [PF6] to save. | |
| 21. DI Deviation | Enter adjustment item 14, and set channel to CH (C), CH(L), CH (H),CH(nC) | Radio Communication Test Set: Filter: 0.05-15KHz AF:1KHz 350mV | ANT DI input | | 3.5KHz±0.1KHz (W) 1.75KHz±0.1KHz (N) | Unadjustable |
| 22. Distortion | 1.CH: RX Center | Radio Communication Test Set SSG output: -60dBm | ANT SP Jack | FILTER: 0.3-3.0KHz | Check | DIS≤5% |
| 23. S/N | | | | | | S/N≥48 (W) S/N≥42 (N) |

**Note:** The radio must be covered with aluminum chassis when adjusting sensitivity; Connect an RF power meter to the antenna connector while TX; Connect a SINAD meter with a 16ohm load to the external [SP] jack.

# Terminal Function

## 1. Display Unit

| Pin No. | Name | Description |
|---|---|---|
| **J501 (To MIC Jack)** | | |
| 1 | MBL | MIC backlight control signal output. “H”: On, “L”:Off. |
| 2 | PSB | Power outputs after power switch (13.6V±15%). |
| 3 | GND | Ground. |
| 4 | PTT/TXD | PTT signal input/ Serial data output. |
| 5 | ME | MIC ground. |
| 6 | MIC | MIC signal input. |
| 7 | HOOK/RXD | Hook signal input/ Serial data input. |
| 8 | CM | Serial data input for keypad MIC. |
| **J503(To DISPLAY UNIT)** | | |
| 1 | VCC | +5V. |
| 2 | E | Ground. |
| 3 | LCDCK | Clock output for LCD driver. |
| 4 | LCDW | LCD data write. |
| 5 | LCDR | LCD data read. |
| 6 | LCDCS | LCD control signal output. |
| 7 | LCD | LCD display contrast. |
| 8 | LAMP | Power for backlight. |
| **J504 (To DISPLAY UNIT)** | | |
| 1 | ME | MIC ground. |
| 2 | MIC | MIC signal output. |
| 3 | E | Ground. |
| 4 | REST | Reset signal input. |
| 5 | TXD2 | Serial data output. |
| 6 | RXD2 | Serial data input. |
| 7 | E | Ground. |
| 8 | PSW | Power switch control signal output. |
| 9 | SB | Power input after power switch (13.6V±15%). |
| 10 | SP1 | BTL input for remote speaker output. |
| 11 | SP2 | BTL input for remote speaker output... |
| **J505 (To Speaker)** | | |
| 1 | SP1 | BTL input for remote speaker output. |
| 2 | SP2 | BTL input for remote speaker output. |

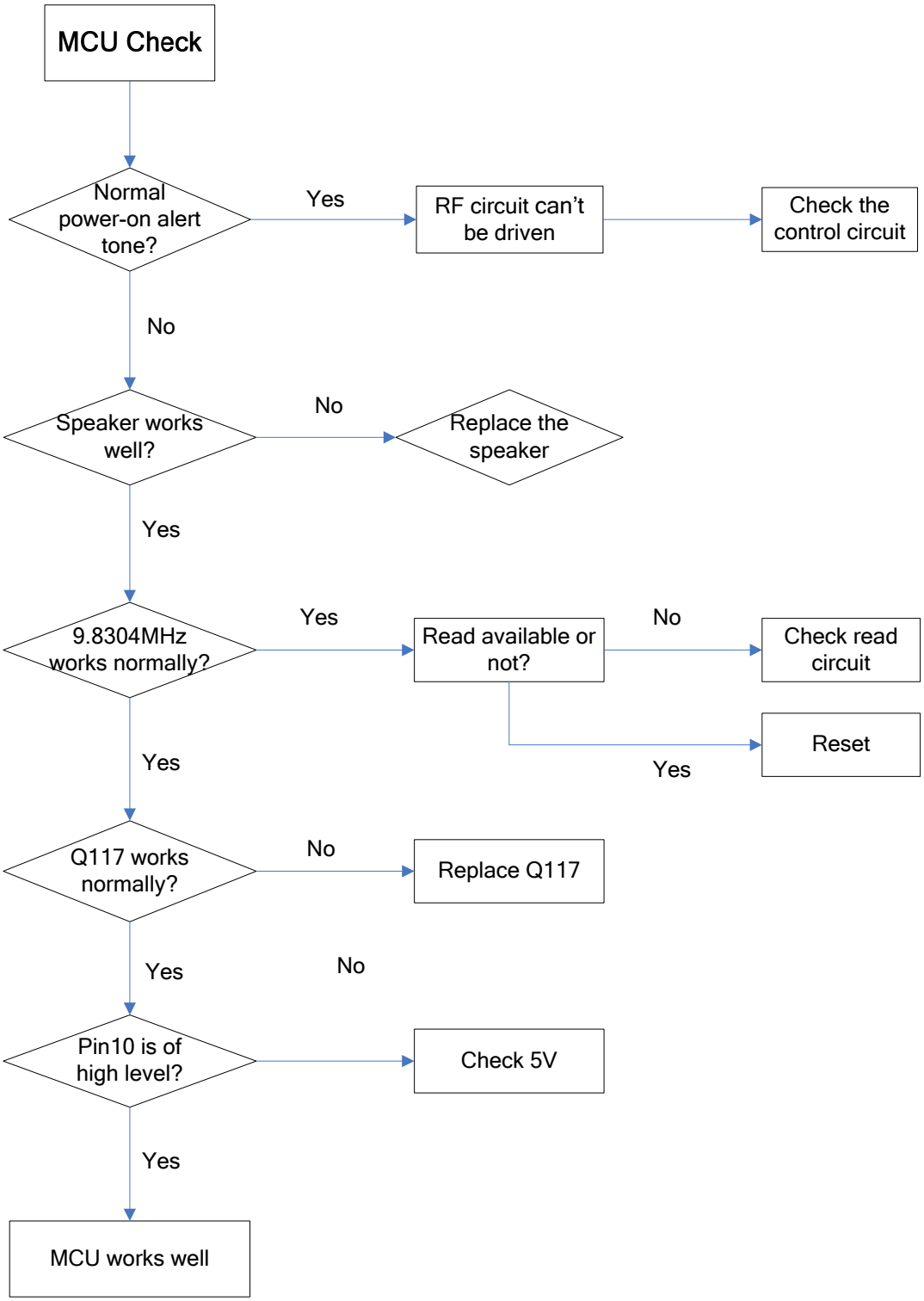
## 2. TX-RX Unit

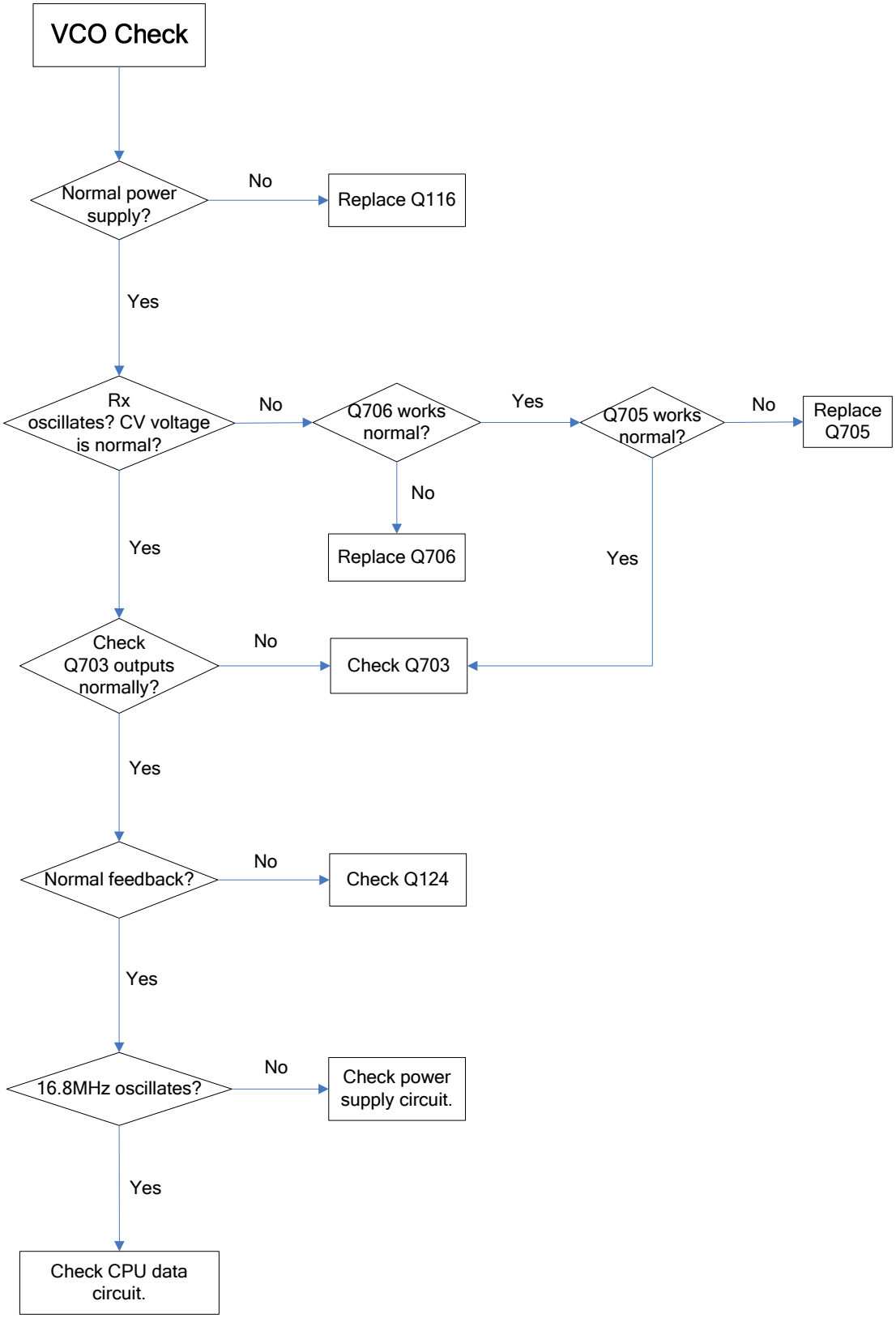
| Pin No. | Name | Description |
|---|---|---|
| **J101 (To DISPLAY UNIT)** | | |
| 1 | ME | MIC ground. |
| 2 | MIC | MIC signal output. |
| 3 | E | Ground. |
| 4 | REST | Reset signal input. |
| 5 | TXD2 | Serial data output. |
| 6 | RXD2 | Serial data input. |
| 7 | E | Ground. |
| 8 | PSW | Power switch control signal output. |
| 9 | SB | Power input after power switch (13.6V±15%). |
| 10 | SP1 | BTL input for remote speaker output. |
| 11 | SP2 | BTL input for remote speaker output. |
| **J104 (To VCO UNIT)** | | |
| 1 | ST | TX RX switch. |
| 2 | HT | RF output. |
| 3 | E | GND. |
| 4 | 8C | +8V. |
| 5 | MD | Modulate output. |
| 6 | CV | Control voltage. |
| **J108(To POWER)** | | |
| 1 | +B | 13.6V±0.5V |
| **J110(To EXTSP)** | | |
| 1 | OUT2 | Output to speaker. |
| 2 | SP2 | BTL input for remote speaker output. |
| 3 | SP1 | BTL input for remote speaker output. |
| 4 | GND | GND. |
| **J111 (at the rear panel; to Secondary Development Interface)** | | |
| 1 | TXD0 | Serial data input. |
| 2 | RXD0 | Serial data output. |
| 3 | MIC2 | External MIC signal output. |
| 4 | ME | MIC ground. |
| 5 | AFO | Filtered Audio output. |
| 6 | AUX5 | Programmable auxiliary port. |
| 7 | AUX4 | Programmable auxiliary port. |
| 8 | AUX3 | Programmable auxiliary port. |
| 9 | HRO<br>Or PCO | Horn Relay Output.<br>Transmitting Power Control Output. |

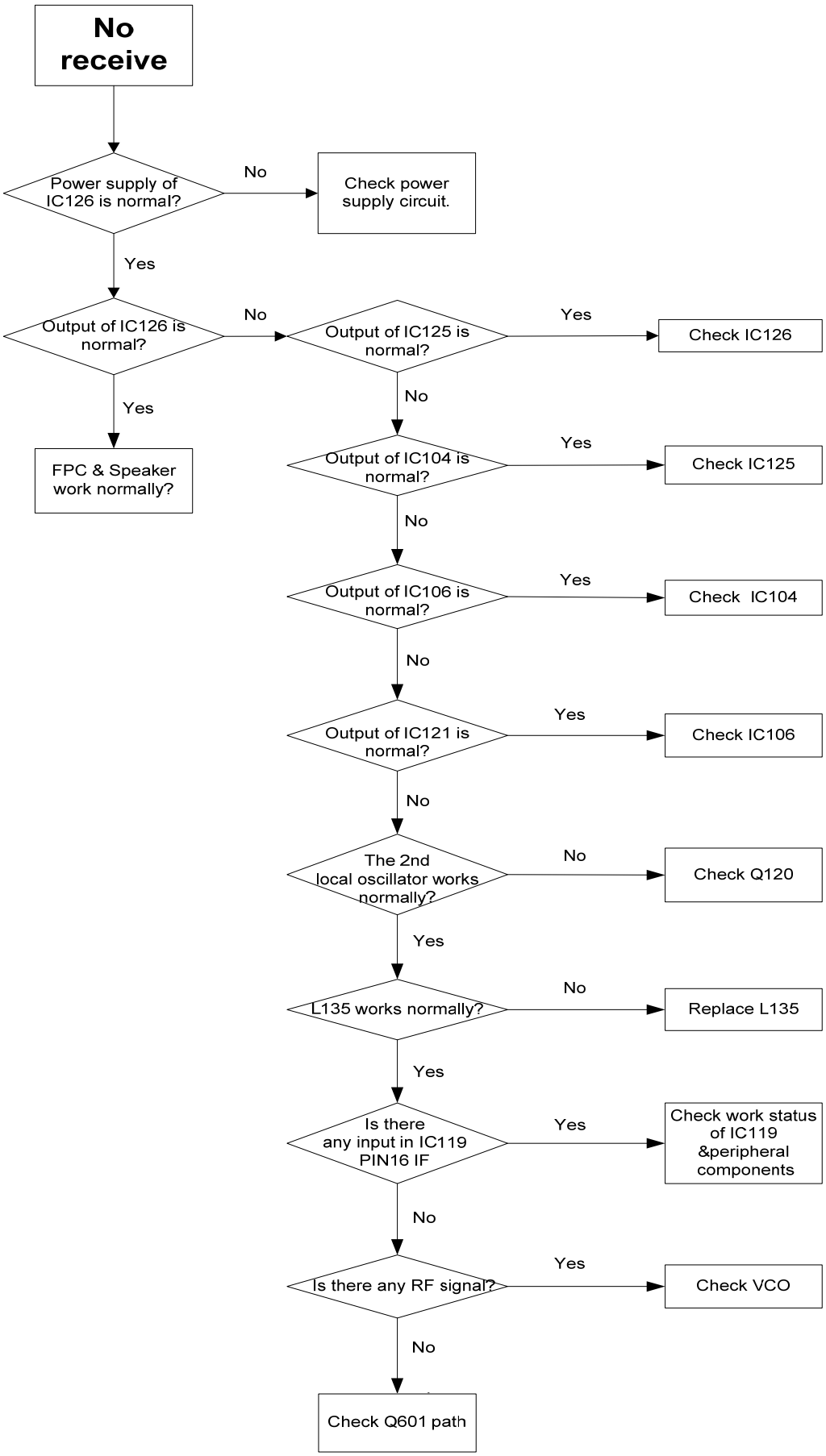
| | | |
|---|---|---|
| 10 | HRI<br>Or RSSI | Horn Relay Input.<br>Receiver Signal Strength Indication. |
| 11 | PA1<br>Or DI | MIC signal output.<br>Data signal input |
| 12 | PA2<br>Or DEO | MIC signal output.<br>Detected signal output. |
| 13 | E | Ground. |
| 14 | SB | Power input after power switch (13.6V±15%). |
| 15 | IGN | Ignition sense input. |
| **J112 (To GPS)** | | |
| 1 | TXD1 | Serial data output. |
| 2 | RXD1 | Serial data input. |
| 3 | 3.3V | +3.3V. |
| 4 | E | Ground. |
| 5 | 5V | +5V. |
| **J105 (To SMARTUNK or Optional board )** | | |
| 1 | AUX4 | Programmable auxiliary port. |
| 2 | AUX3 | Programmable auxiliary port. |
| 3 | ALT | Alert Tone input. |
| 4 | RXAF_DI | Receive signal Input. (from Option Board to Radio) |
| 5 | +5V | +5V |
| 6 | TXD1 | Serial data output. |
| 7 | TXAF_OUT | TX audio input before audio process (from Radio to Option Board) |
| 8 | RXD1T | Serial data input. |
| 9 | TXAF_DO | TX audio output before audio process (from Radio to Option Board) |
| 10 | GND | Ground |
| 11 | +8V | +8V |
| 12 | AUX1 | Programmable auxiliary port. |
| 13 | AUX2 | Programmable auxiliary port. |
| 14 | AUX5 | Programmable auxiliary port. |
| 15 | TXAF_DI | Data signal input (from Option Board to Radio) |
| 16 | 8RC | RX /TX state indicate “H”: RX ; “L”:TX |
| 17 | DEO | Detected signal output. (from Radio to Option Board) |
| 18 | RXAF_IN | RX audio output before audio process (from Option Board to Radio) |
| 19 | TXAF_IN | TX audio input before audio process (from Option Board to Radio) |
| 20 | RXAF_OUT | RX audio input after audio process (from Radio to Option Board) |

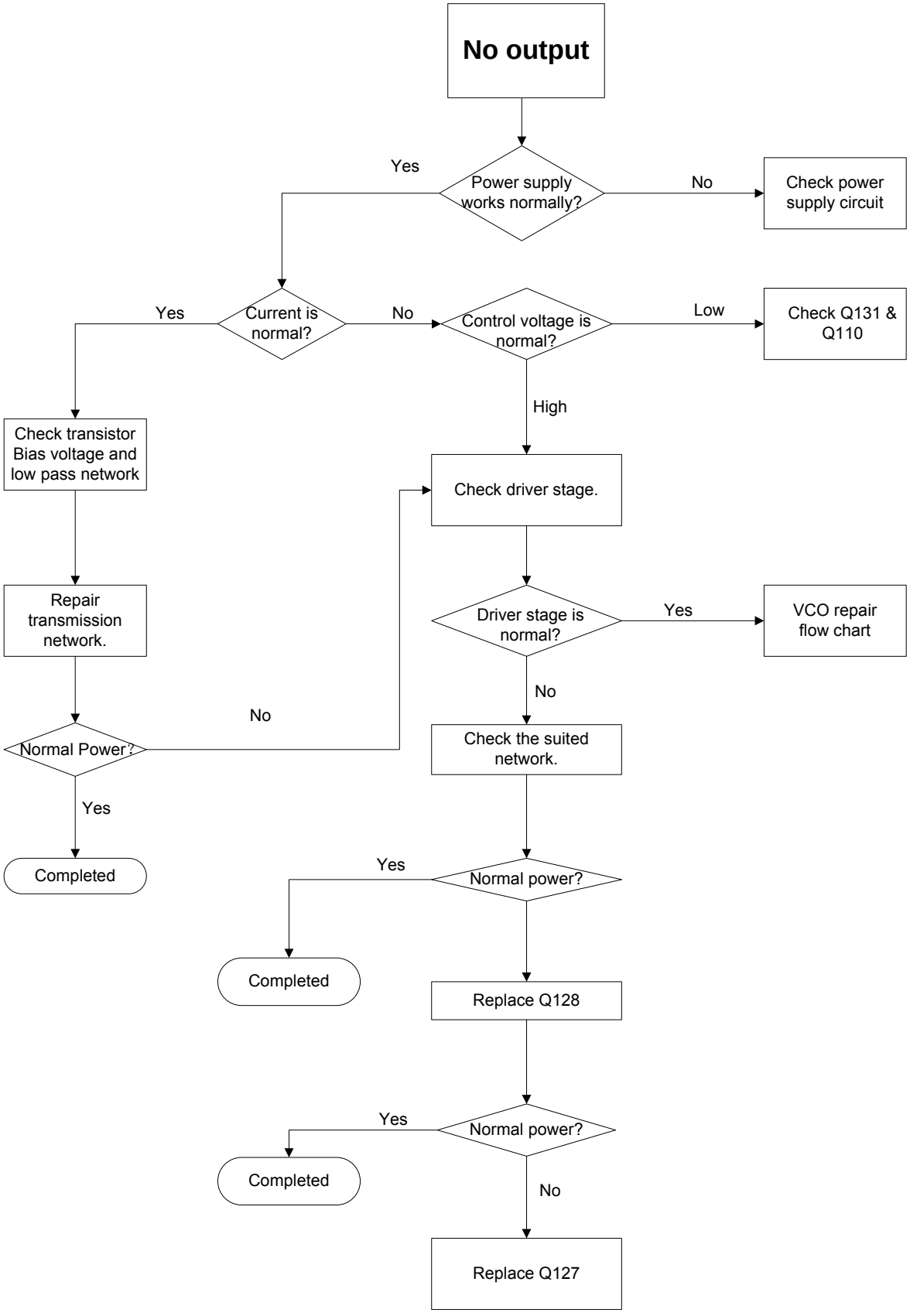
| J106 (To Data Encryption and Decryption) | | |
|---|---|---|
| 1 | 8RC | RX /TX state indicate “H”: RX ; “L”:TX |
| 2 | TXAF_IN | TX audio input before audio process (from Option Board to Radio) |
| 3 | RXAF_IN | RX audio output before audio process (from Option Board to Radio) |
| 4 | 8V | +8V |
| 5 | GND | Ground. |
| 6 | AUX2 | Programmable auxiliary port. |
| 7 | AUX1 | Programmable auxiliary port. |
| 8 | DEO | Detected signal output. (from Radio to Option Board) |
| 9 | TXAF_DO | TX audio output before audio process (from Radio to Option Board) |

# Troubleshooting Flow Chart




VCO Check
Normal power supply?
No
Replace Q116
Yes
Rx oscillates? CV voltage is normal?
No
Q706 works normal?
Yes
Q705 works normal?
No
Replace Q705
No
Replace Q706
Yes
Yes
Check Q703 outputs normally?
No
Check Q703
Yes
Normal feedback?
No
Check Q124
Yes
16.8MHz oscillates?
No
Check power supply circuit.
Yes
Check CPU data circuit.

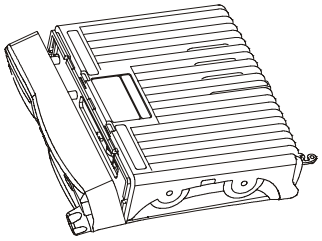

No receive
Power supply of IC126 is normal?
No
Check power supply circuit.
Yes
Output of IC126 is normal?
No
Output of IC125 is normal?
Yes
Check IC126
Yes
FPC & Speaker work normally?
No
Output of IC104 is normal?
Yes
Check IC125
No
Output of IC106 is normal?
Yes
Check IC104
No
Output of IC121 is normal?
Yes
Check IC106
No
The 2nd local oscillator works normally?
No
Check Q120
Yes
L135 works normally?
No
Replace L135
Yes
Is there any input in IC119 PIN16 IF
Yes
Check work status of IC119 &peripheral components
No
Is there any RF signal?
Yes
Check VCO
No
Check Q601 path


No output
Power supply works normally?
Yes
No
Check power supply circuit
Current is normal?
Yes
No
Control voltage is normal?
Low
Check Q131 & Q110
High
Check transistor Bias voltage and low pass network
Check driver stage.
Repair transmission network.
Driver stage is normal?
Yes
VCO repair flow chart
No
Normal Power?
No
Check the suited network.
Yes
Completed
Normal power?
Yes
Completed
Replace Q128
Normal power?
Yes
Completed
No
Replace Q127

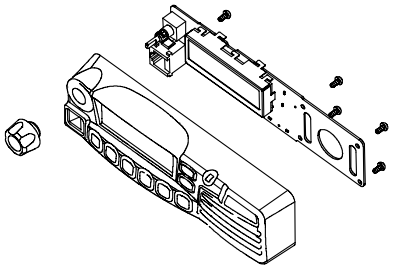
# Disassembly and Reassembly for Repair

## Disassembly

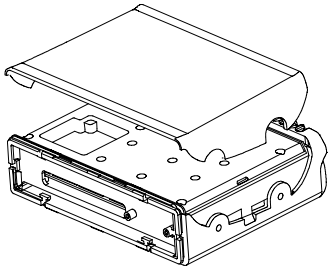
1. Power off the transceiver; disconnect the power cable and screw out the antenna connector.
2. Lift the tabs on the bottom of the transceiver, and then remove the panel from the transceiver.



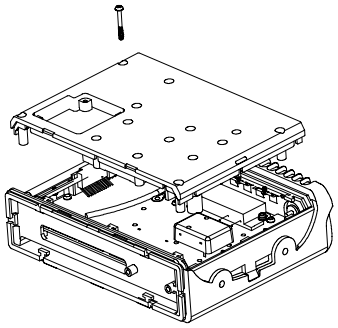
3. Pull out the selector knob, loosen the five screws and then remove the PCB board from the panel.



4. Lift the tabs on both sides of the transceiver, and then remove the rear cover.

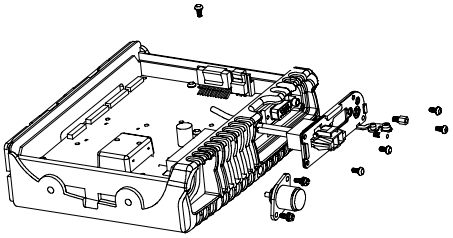


5. Loosen the screw, lift the tabs on the shield cover and then remove the shield cover.

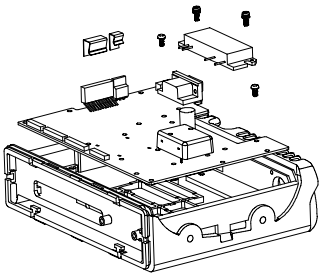


6. Loosen the screw that binds the power cable (black) to the PCB board; loosen the screws on the

external board and d15-pin plug; remove the external board and the waterproof packing.



7. Loosen the screw on the power amplification module; loosen by welding the connector that connects power amplification module to the main PCB, and then pull out the module.

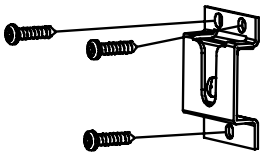


8. Loosen the screws on the main PCB board; lift the two clips (power amplification cooler), and take out the main PCB.

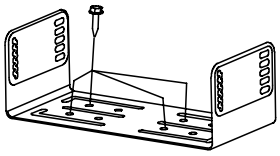
## Reassembly

For the reassembly of the transceiver, please refer to “Disassembly”. Other procedures are as follows:

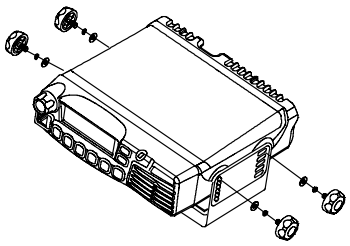
1. Fix the bracket (Remote SP MIC) by using three self-tapping screws(white,4.0×16).



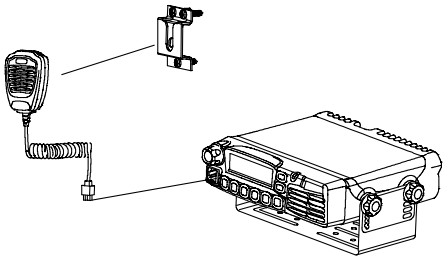
2. Fix the bracket (main unit of the tranceiver) by using four or six self-tapping screws（black,4.8X20）.



3. Screw on the four adjustment screws (each with one shrapnel and one shim).



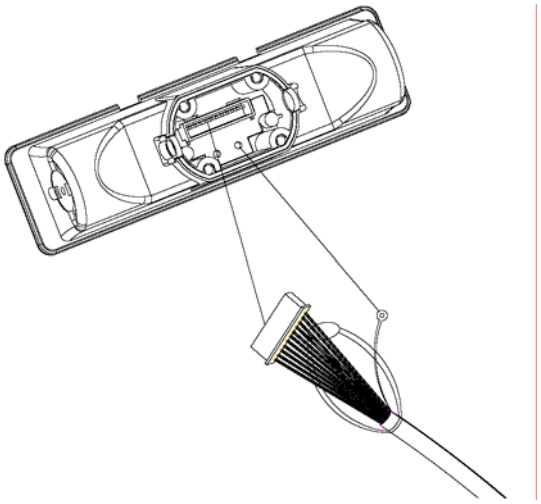
4. Plug the connector (Remote SP MIC) to the jack (Remote SP MIC); when the remote SP MIC is not in use, hang it on the bracket (Remote SP MIC).



## Remote Kit Installation (Optional)

The remote kit is optional, the steps of installation as follow:

1. Lift the tab on the bottom of transceiver, and then pull the panel away from the transceiver.
2. Remove the connector that binds the display unit to the TX-RX unit.
3. As shown in the below figure, make sure that the rubber seal is placed above the cable, then plug the 11-pin connector into the rear panel socket.

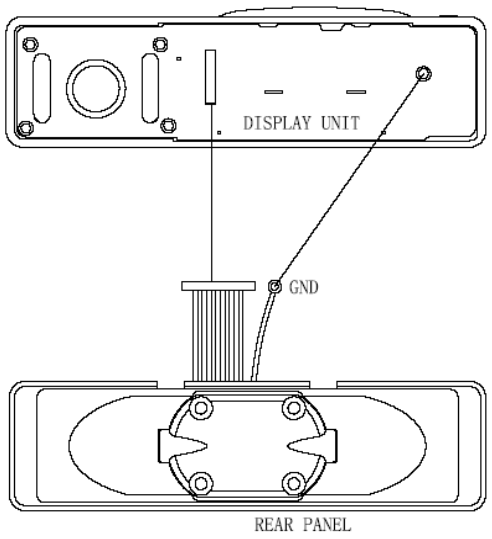


4. As shown in the above figture, affix the ground wire to the front panel chassis with the supplied

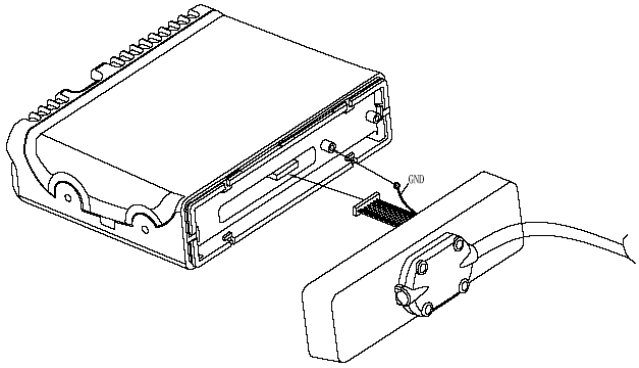
screw.

Choose the remote wire position (right side or left side), then place the seal within the guide rail. Attach and secure the cover using the 4 binding screws.

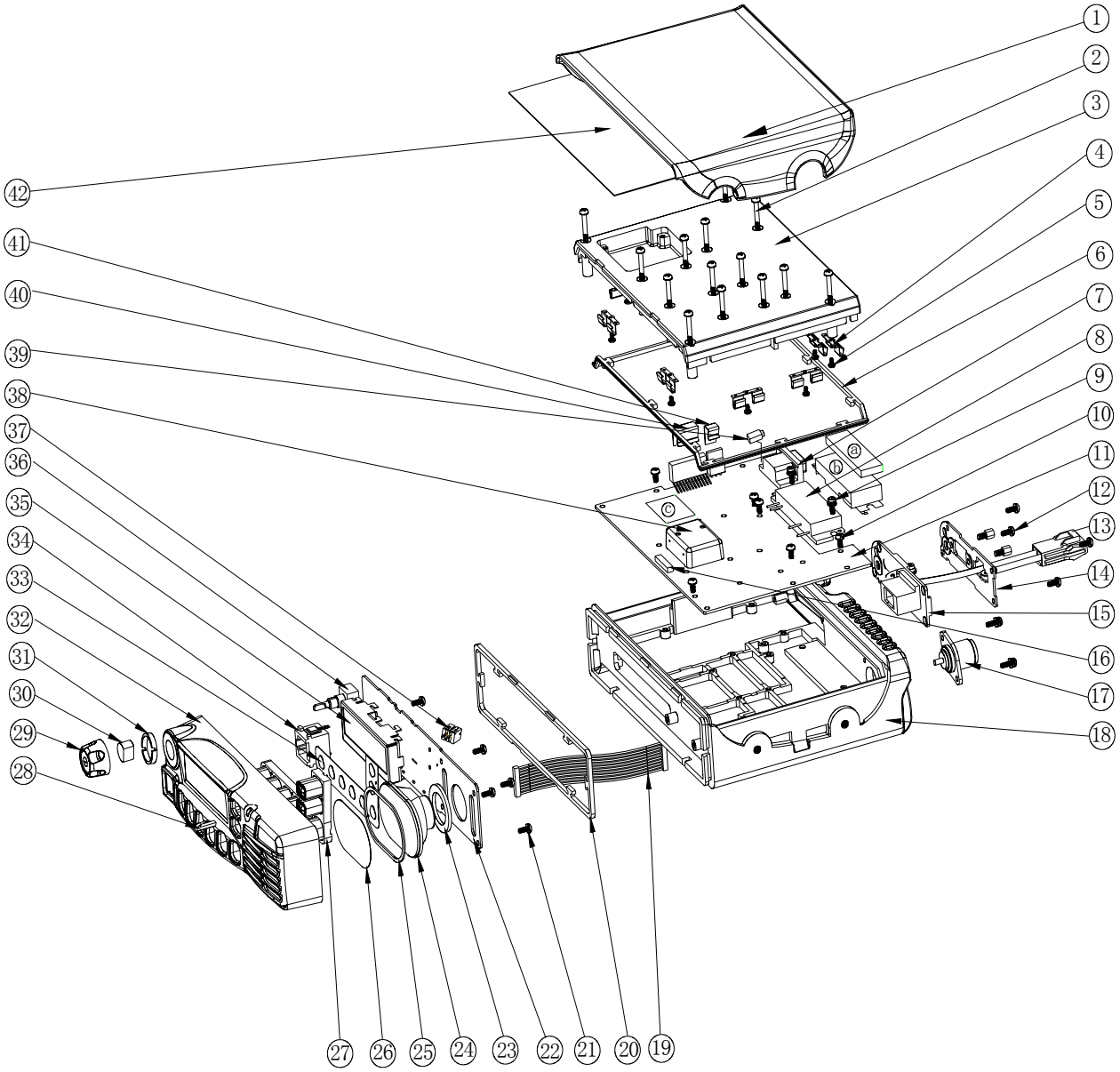
5. Plug the 11-pin connector (from the front panel) to the PCB of Display unit socket, as shown in the below figure. Push the 11-pin connector (from the front panel) into the chassis so that the 6 tabs on top and bottom are securely fixed.




6. For the first three steps of the rear panel installation, please refer to step 3, 4 and 5.
7. Plug the connector from the front panel into the socket, as shown following. Affix the ground wire (from the rear panel) to the chassis with the supplied screw. Push and secure the main panel so that the 6 tabs on the top and bottom of panel are securely fixed.



# TM-800 UHF Exploded View



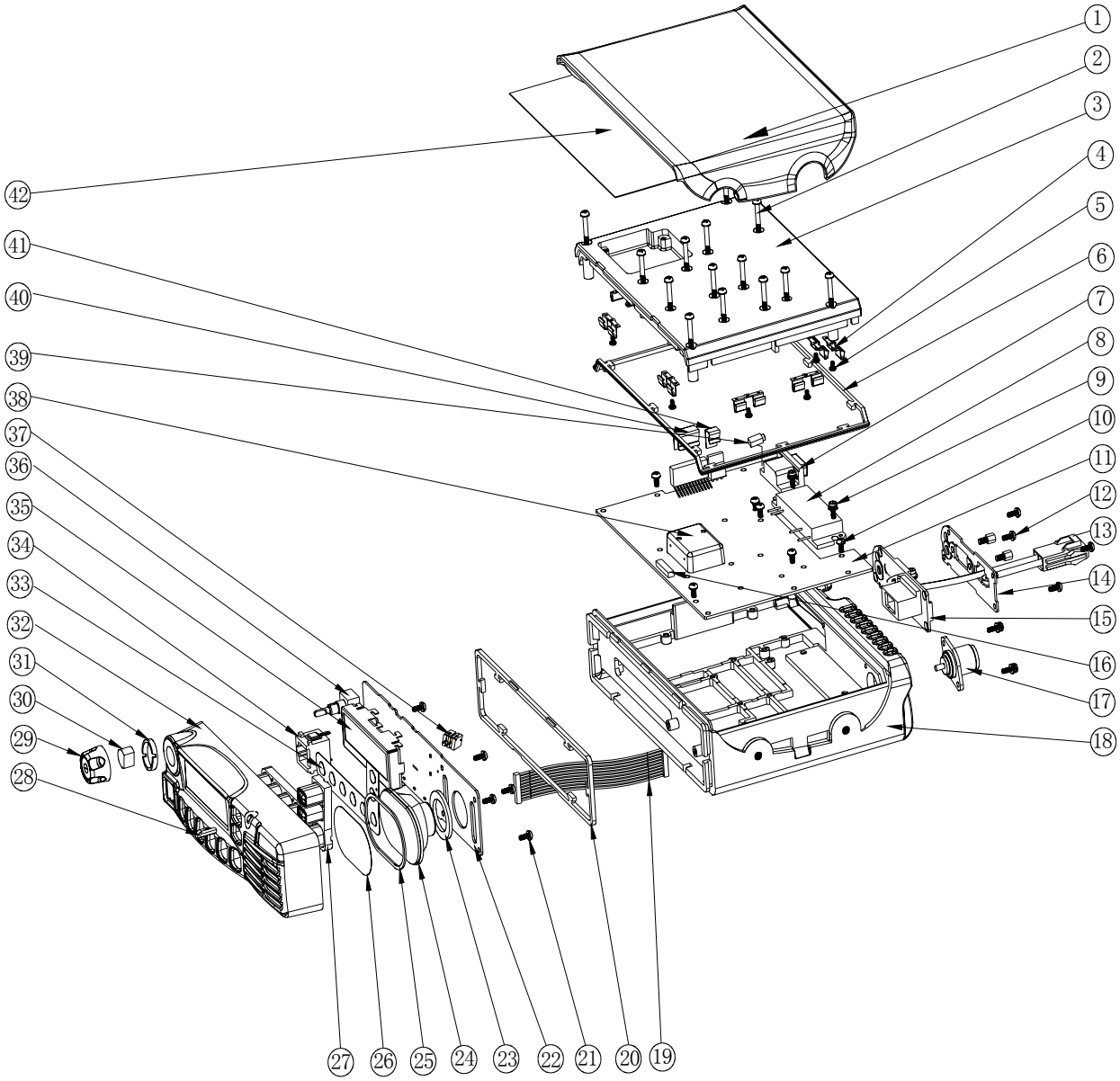
# TM-800 UHF Parts List 2

| No. | Material No. | Description | Qty. |
|---|---|---|---|
| 1 | 6000224000000 | TM-800 Rear cover 00(RoHS) | 1 |
| 2 | 7102623020000 | Self-tapping screw ST2.6*23.0mm 00(RoHS) | 14 |
| 3 | 6300077000000 | Shielding 00 (RoHS) | 1 |
| 4 | 6201184000000 | Copper shielding 00(RoHS) | 7 |
| 5 | 7101904020200 | Self-tapping screw ST1.9*4.0mm 00 (RoHS) | 7 |
| 6 | 6100226000000 | Shielding gasket 00(RoHS) | 1 |
| 7 | 5202015100030 | Socket (RoHS) | 1 |
| 8 | | PA module (power selectable) | 1 |
| 9 | 7102508000100 | Machine screw M2.5*8.0mm 00(RoHS) | 4 |
| 10 | 7102606020000 | Self-tapping screw ST2.6*6.0mm 00(RoHS) | 6 |
| 11 | | TM-800U PCB (main board) | 1 |
| 12 | 7102606021000 | Self-tapping screw ST2.6*6.0mm 00(RoHS) | 4 |
| 13 | 4200090000000 | TM-800 Power cord (RoHS) | 1 |
| 14 | 6201175000110 | TM-800 External connection board 01(RoHS) | 1 |
| 15 | 6100227000000 | Gasket (external connection board) 00(RoHS) | 1 |
| 16 | 5202011100000 | Socket (RoHS) | 1 |
| 17 | | Antenna connector (selectable) | 1 |
| 18 | 6300076000000 | TM-800 Aluminum chassis 00 (RoHS) | 1 |
| 19 | 4210100000100 | Connection cable (RoHS) | 1 |
| 20 | 6100228000000 | TM-800 Seal ring (front panel) 00(RoHS) | 1 |
| 21 | 7102310020010 | Self-tapping screw ST2.3*10.0mm 01(RoHS) | 5 |
| 22 | | TM-800U PCB (control panel) | 1 |
| 23 | 7500070000000 | Sponge cushion (speaker) 00(RoHS) | 1 |
| 24 | 5001210000260 | Speaker 16Ω 5W-8W 81dB Φ35mm (RoHS) | 1 |
| 25 | 6100138000000 | Silicone rubber cushion (speaker) 00(RoHS) | 1 |
| 26 | 7400096000020 | Felt speaker 02(RoHS) | 1 |
| 27 | 6100136000000 | Numeric keypad 00(RoHS) | 1 |
| 28 | 6000231000000 | Light guide 00(RoHS) | 1 |
| 29 | 6000228100000 | Selector knob 00(RoHS) | 1 |
| 30 | 6201066000000 | Inner liner knob 00(RoHS) | 1 |
| 31 | 7207002200200 | Nut M7.0*2.2mm 00(RoHS) | 1 |
| 32 | 1501008000010 | TM-800 (version B) Front panel kit (RoHS) | 1 |
| 33 | 7300007100000 | Switch 00(RoHS) | 1 |
| 34 | 5205000000260 | Microphone jack (RoHS) | 1 |
| 35 | 5110000000480 | LCD (RoHS) | 1 |
| 36 | 4302030000040 | Rotary switch (RoHS) | 1 |
| 37 | 5202002100270 | Socket (RoHS) | 1 |
| 38 | 6201177000000 | VCO shielding 00(RoHS) | 1 |
| 39 | 5205000000280 | Speaker jack (RoHS) | 1 |

| | | | |
|---|---|---|---|
| 40 | 6201181000000 | Cooler clamp of PA 00(RoHS) | 1 |
| 41 | 6201182000000 | Cooler clamp of power module 00(RoHS) | 1 |
| 42 | 7500072000000 | Vibration-absorbing sponge 00(RoHS) | 1 |
| a | 7600009000000 | Shielding of PA module 00(RoHS) | 1 |
| b | 6201190000010 | Shielding of PA module 01(RoHS) | 1 |
| c | 7500072000000 | Copper foil 00(RoHS) | 1 |

**Note:** items not marked with material No. will vary with the frequency band of your radio.

# TM-800 VHF Exploded View

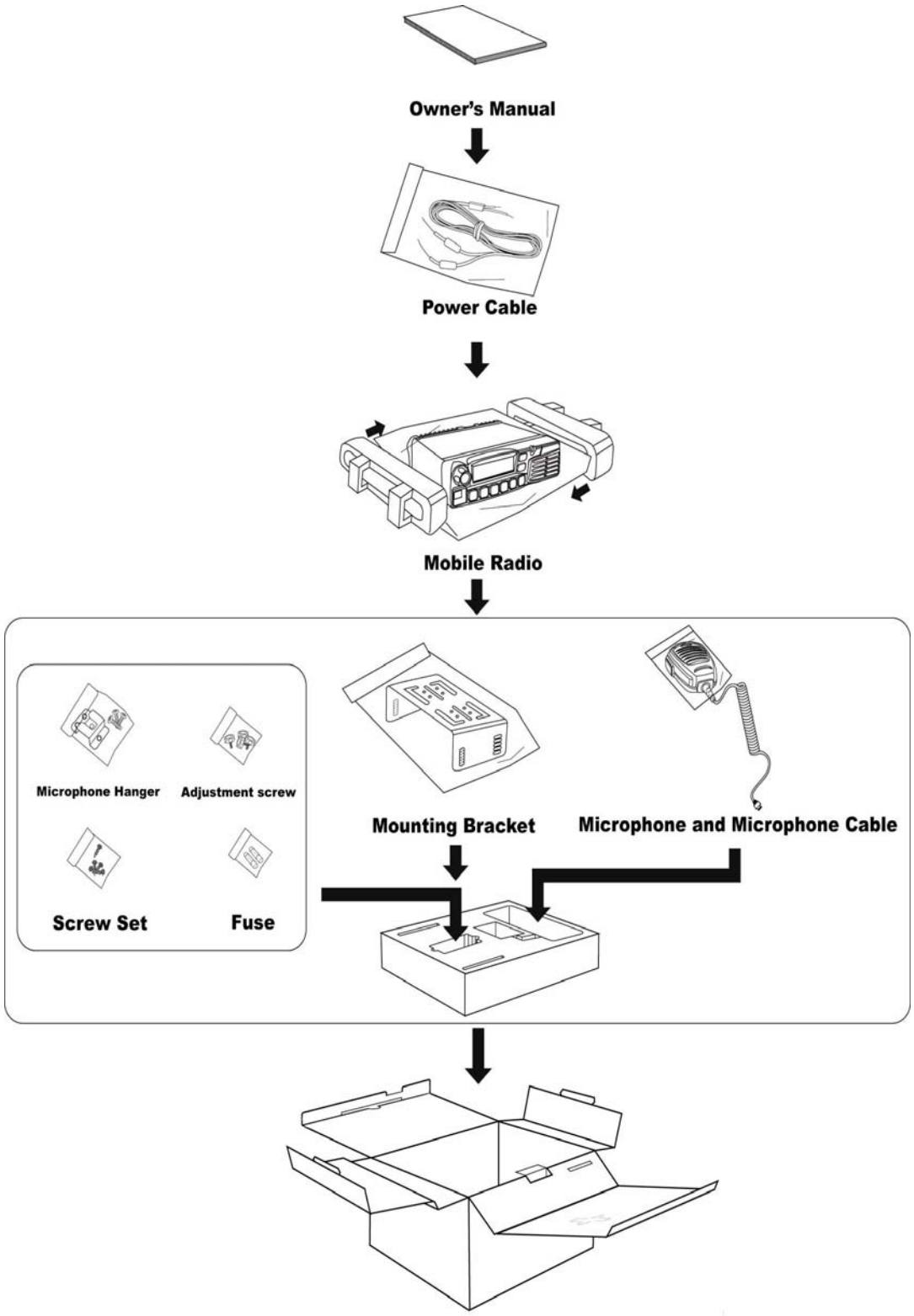


# TM-800 VHF Parts List 2

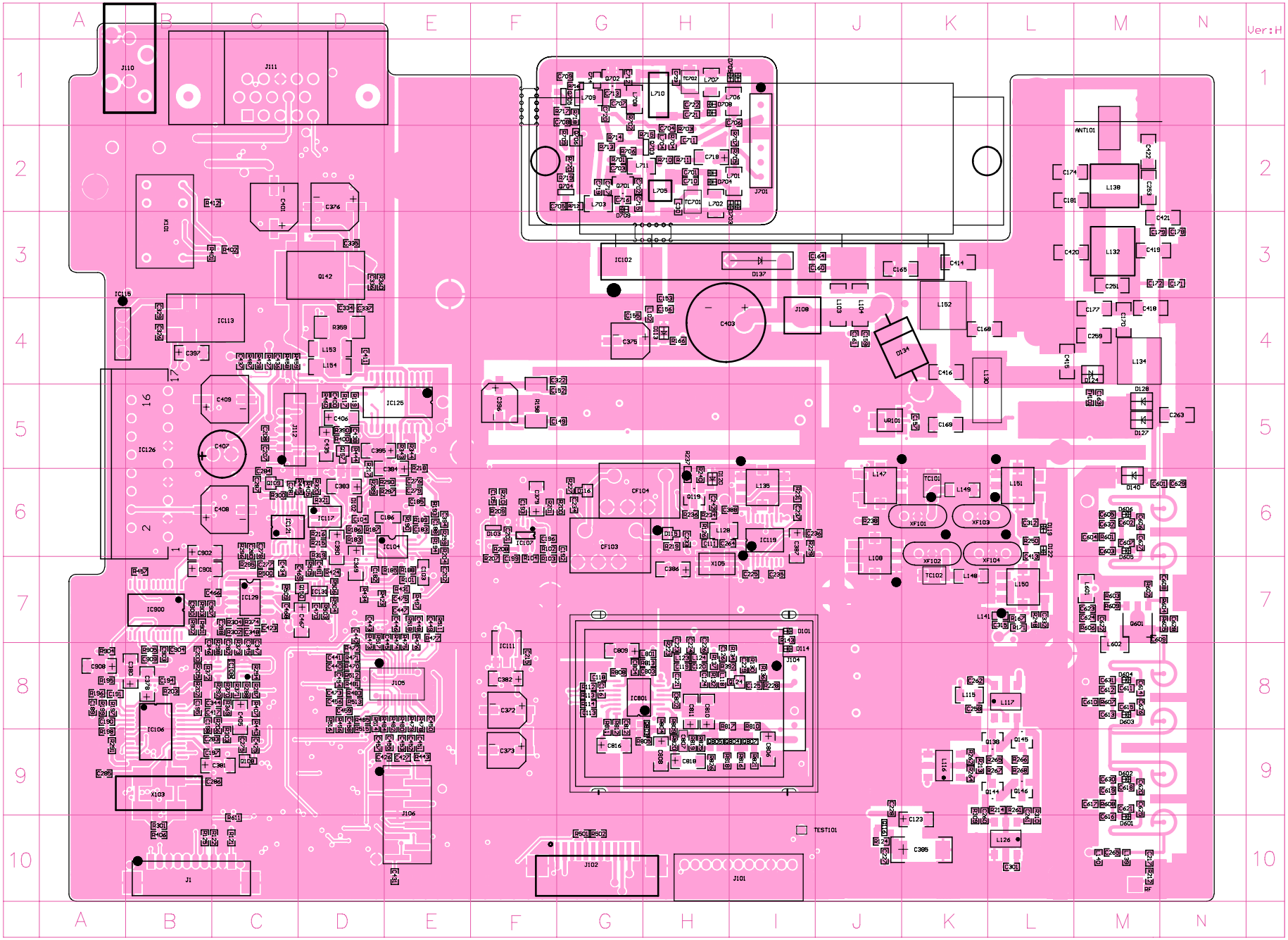
| No. | Material No. | Description | Qty. |
|---|---|---|---|
| 1 | 6000224000000 | TM-800 Rear cover 00(RoHS) | 1 |
| 2 | 7102623020000 | Self-tapping screw ST2.6*23.0mm 00(RoHS) | 14 |
| 3 | 6300077000000 | Shielding 00 (RoHS) | 1 |
| 4 | 6201184000000 | Copper shielding 00(RoHS) | 7 |
| 5 | 7101904020200 | Self-tapping screw ST1.9*4.0mm 00 (RoHS) | 7 |
| 6 | 6100226000000 | Shielding gasket 00(RoHS) | 1 |
| 7 | 5202015100030 | Socket（RoHS) | 1 |
| 8 | | PA module (power selectable) | 1 |
| 9 | 7102508000100 | Machine screw M2.5*8.0mm 00(RoHS) | 4 |
| 10 | 7102606020000 | Self-tapping screw ST2.6*6.0mm 00(RoHS) | 6 |
| 11 | | TM-800V PCB (main board) | 1 |
| 12 | 7102606021000 | Self-tapping screw ST2.6*6.0mm 00(RoHS) | 4 |
| 13 | 4200090000000 | TM-800 Power cord (RoHS) | 1 |
| 14 | 6201175000110 | TM-800 External connection board 01(RoHS) | 1 |
| 15 | 6100227000000 | Gasket (external connection board) 00(RoHS) | 1 |
| 16 | 5202011100000 | Socket (RoHS) | 1 |
| 17 | | Antenna connector (selectable) | 1 |
| 18 | 6300076000000 | Aluminum chassis 00 (RoHS) | 1 |
| 19 | 4210100000100 | Connection cable (RoHS) | 1 |
| 20 | 6100228000000 | TM-800 Seal ring (front panel) 00(RoHS) | 1 |
| 21 | 7102310020010 | Self-tapping screw ST2.3*10.0mm 01(RoHS) | 5 |
| 22 | | TM-800V PCB (control panel) | 1 |
| 23 | 7500070000000 | Sponge cushion (speaker) 00(RoHS) | 1 |
| 24 | 5001210000260 | Speaker 16Ω 5W-8W 81dB Φ35mm (RoHS) | 1 |
| 25 | 6100138000000 | Silicone rubber cushion (speaker) 00(RoHS) | 1 |
| 26 | 7400096000020 | Felt speaker 02(RoHS) | 1 |
| 27 | 6100136000000 | Numeric keypad 00(RoHS) | 1 |
| 28 | 6000231000000 | Light guide 00(RoHS) | 1 |
| 29 | 6000228100000 | Selector knob 00(RoHS) | 1 |
| 30 | 6201066000000 | Inner liner knob 00(RoHS) | 1 |
| 31 | 7207002200200 | Nut 00(RoHS) | 1 |
| 32 | 1501008000010 | TM-800 (version B) Front panel kit (RoHS) | 1 |
| 33 | 7300007100000 | Switch 00(RoHS) | 1 |
| 34 | 5205000000260 | Microphone jack (RoHS) | 1 |
| 35 | 5110000000480 | LCD (RoHS) | 1 |
| 36 | 4302030000040 | Rotary switch (RoHS) | 1 |
| 37 | 5202002100270 | Socket (RoHS) | 1 |
| 38 | 6201177000000 | VCO shielding 00(RoHS) | 1 |

| | | | |
|---|---|---|---|
| 39 | 5205000000280 | Speaker jack (RoHS) | 1 |
| 40 | 6201181000000 | Cooler clamp of PA 00(RoHS) | 1 |
| 41 | 6201182000000 | Cooler clamp of power module 00(RoHS) | 1 |
| 42 | 7500072000000 | Vibration-absorbing sponge 00(RoHS) | 1 |

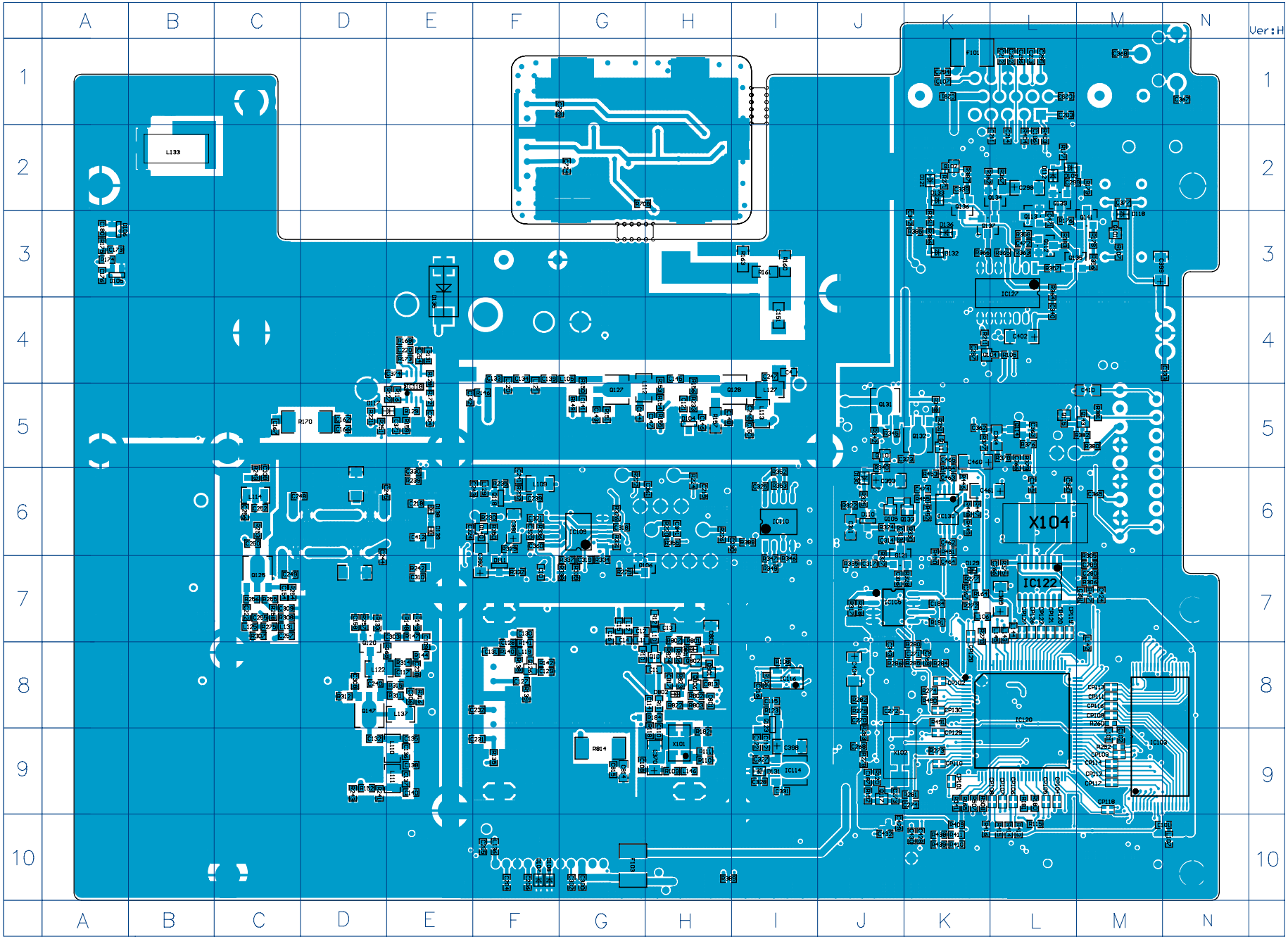
# Packing


Owner's Manual
Power Cable
Mobile Radio
Microphone Hanger
Adjustment screw
Screw Set
Fuse
Mounting Bracket
Microphone and Microphone Cable

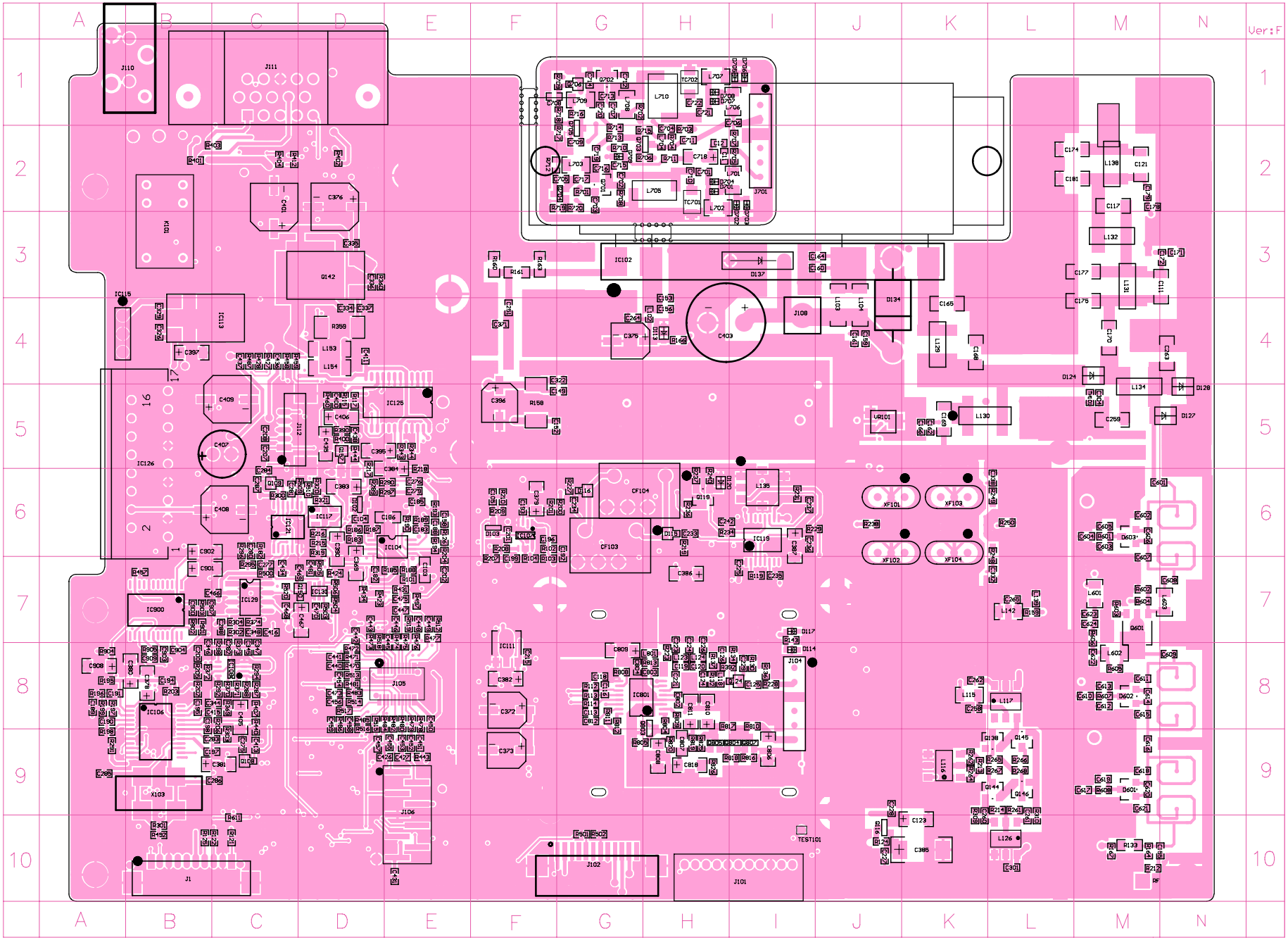
# TM-800 UHF PCB View
## Top Layer



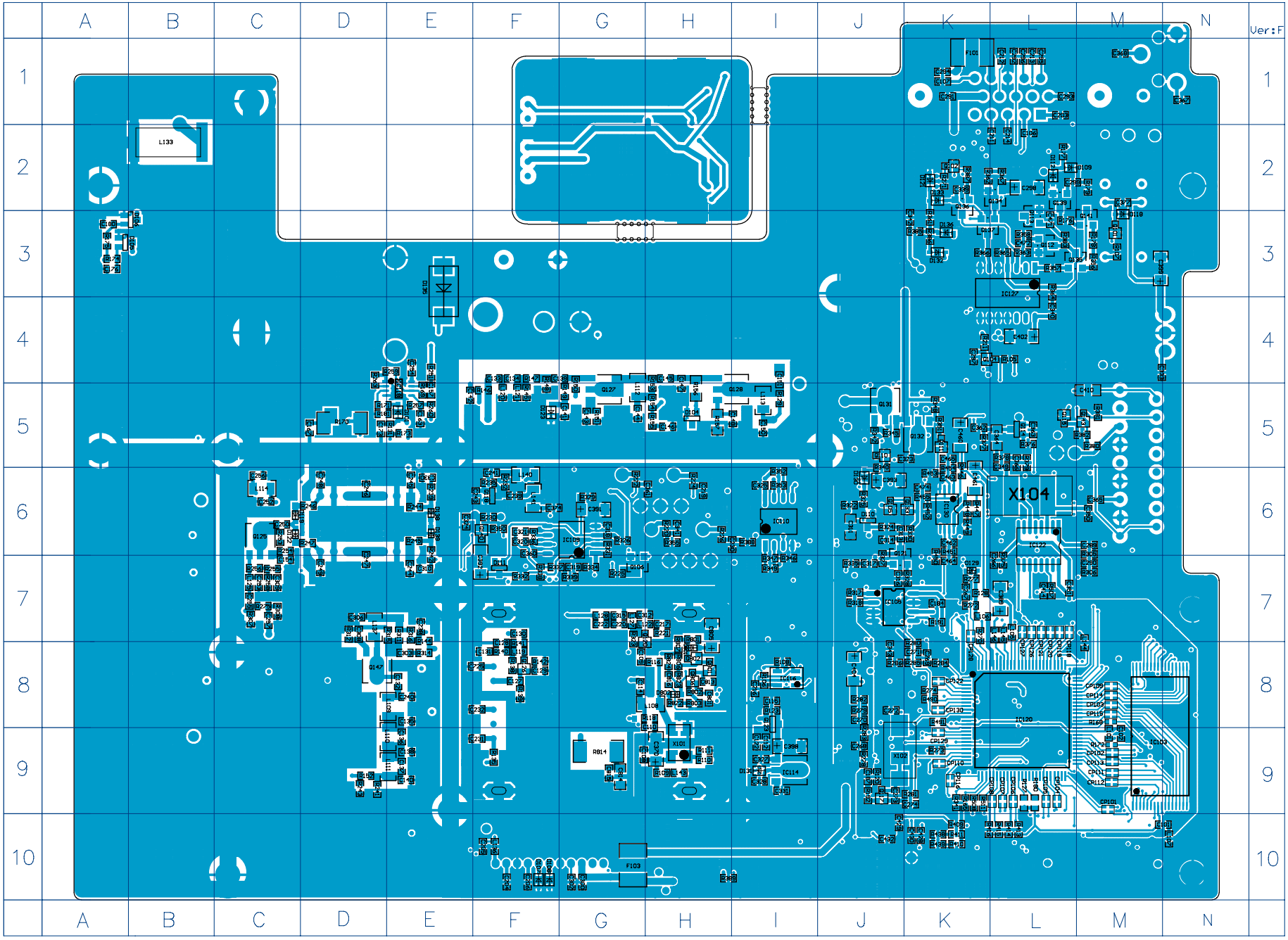
# TM-800 UHF PCB View
# Bottom Layer



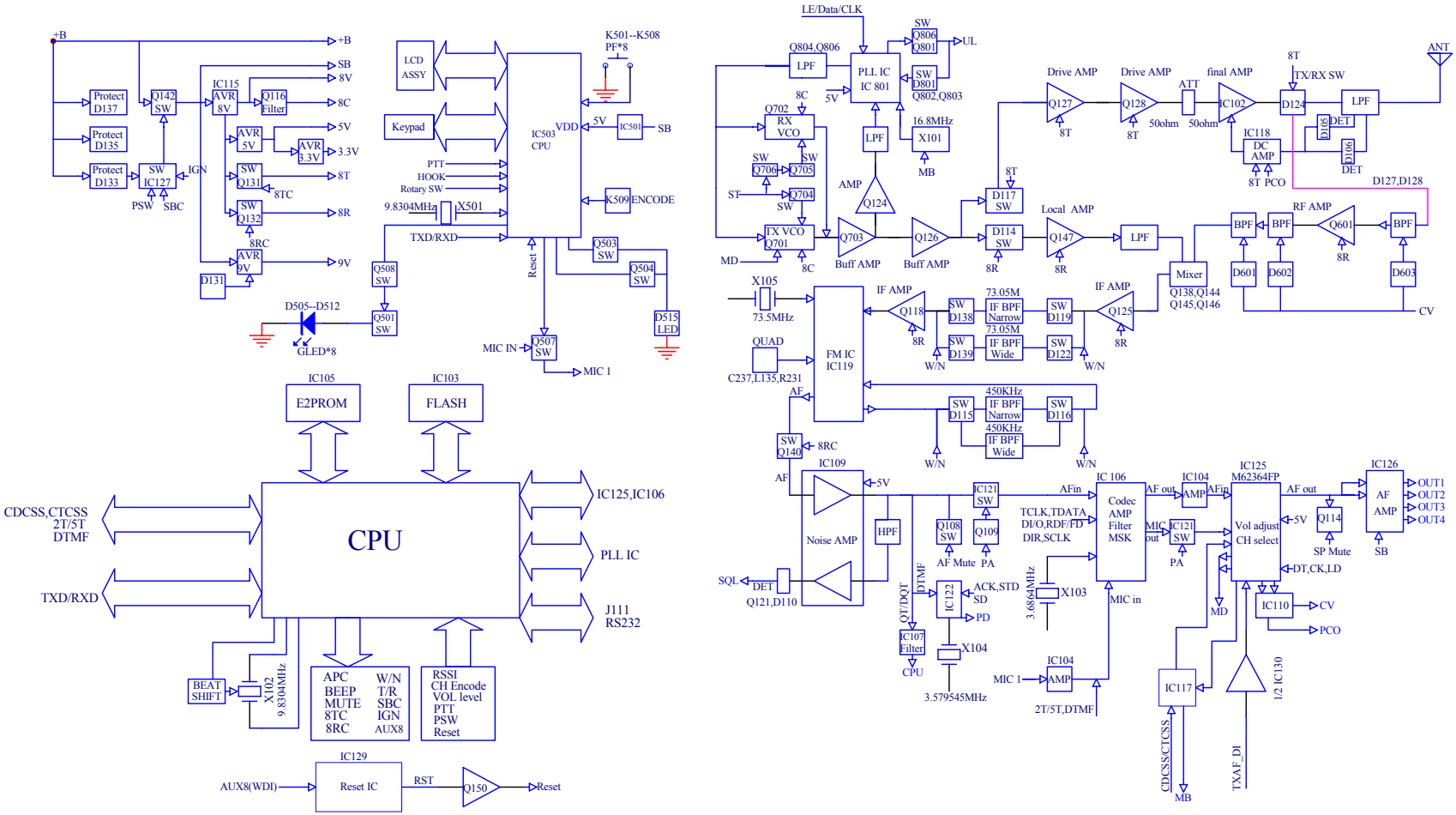
# TM-800 VHF PCB View
# Top Layer



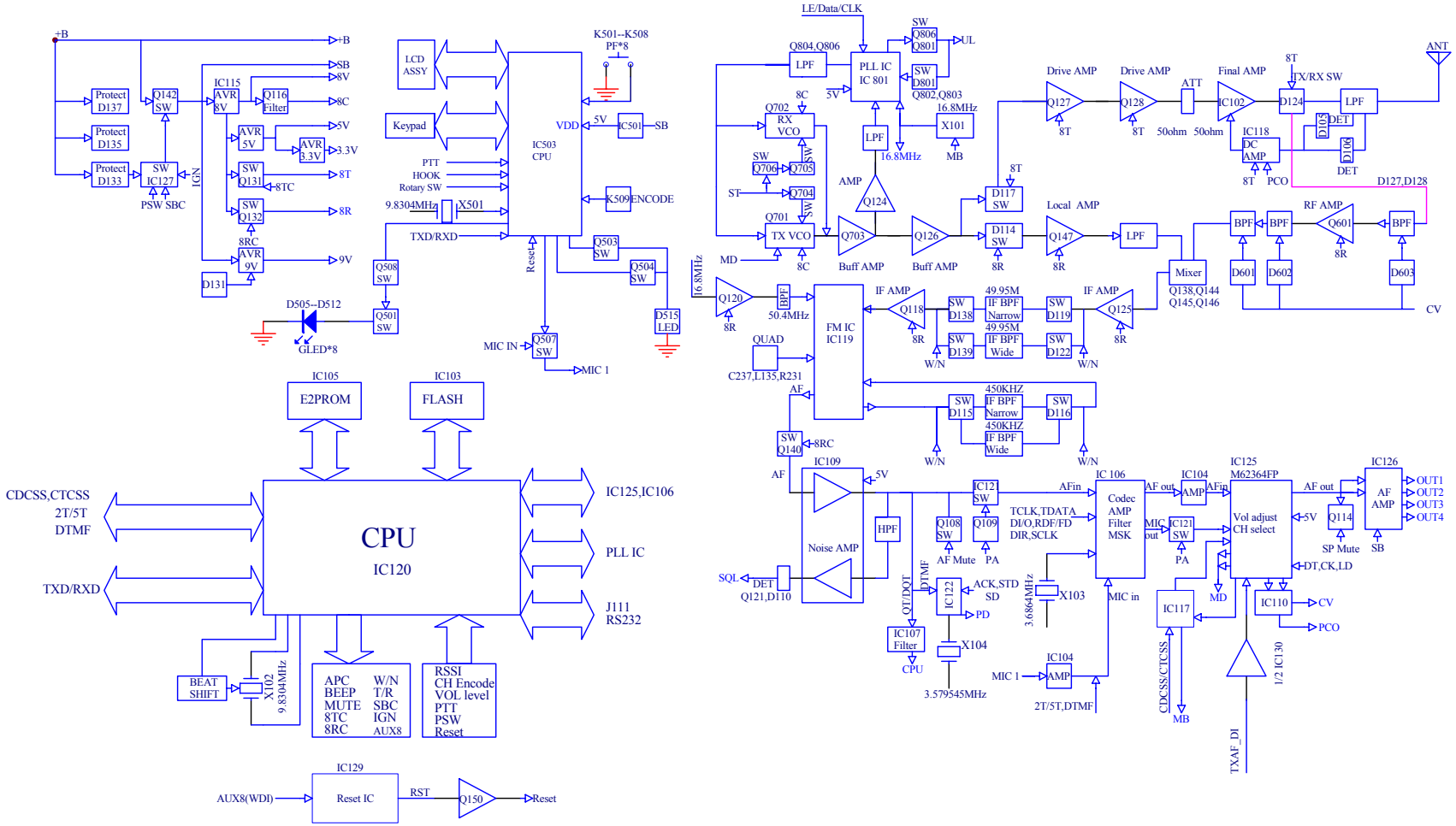
# TM-800 VHF PCB View
# Bottom Layer



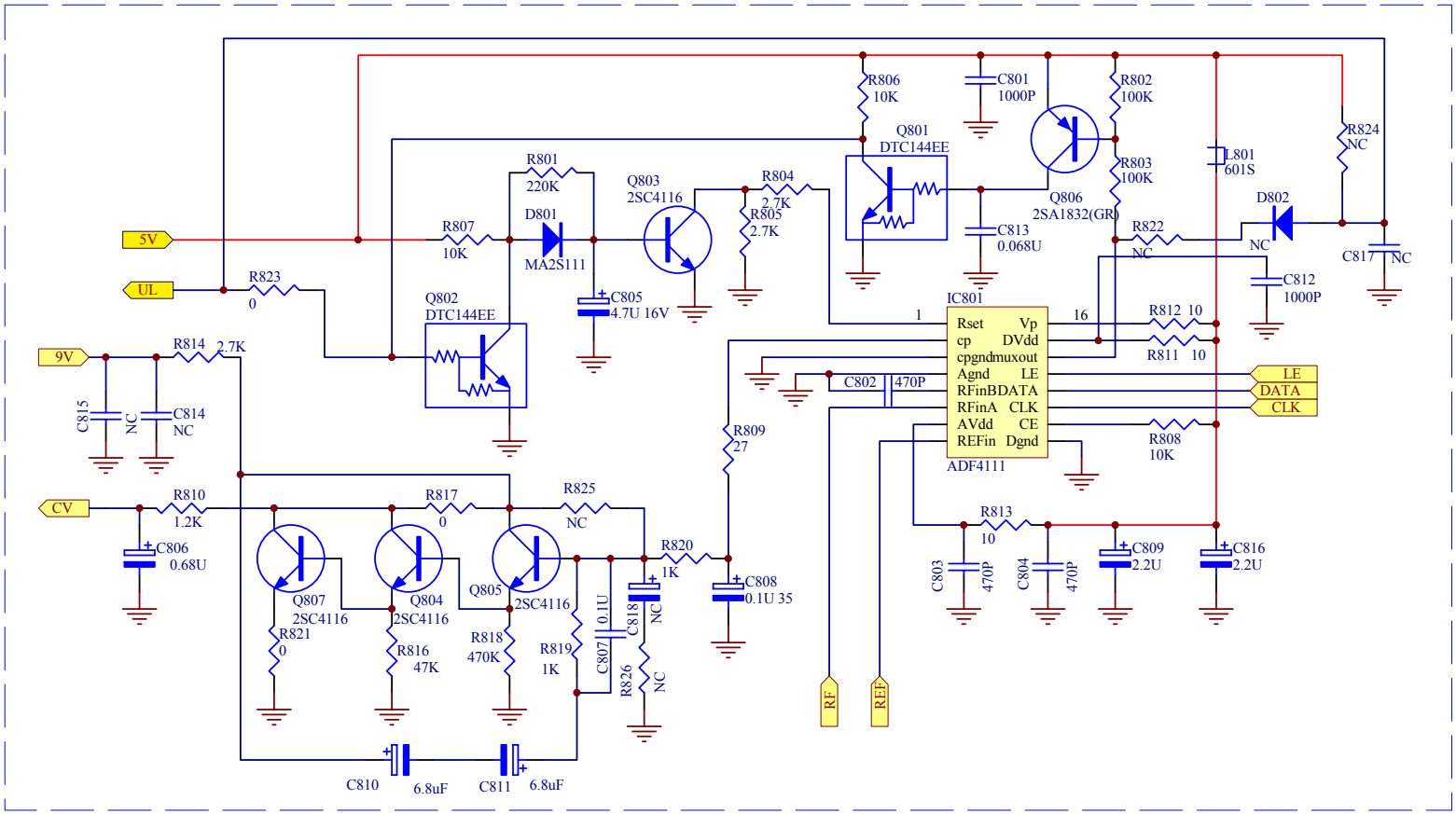
# TM-800 UHF Block Diagram



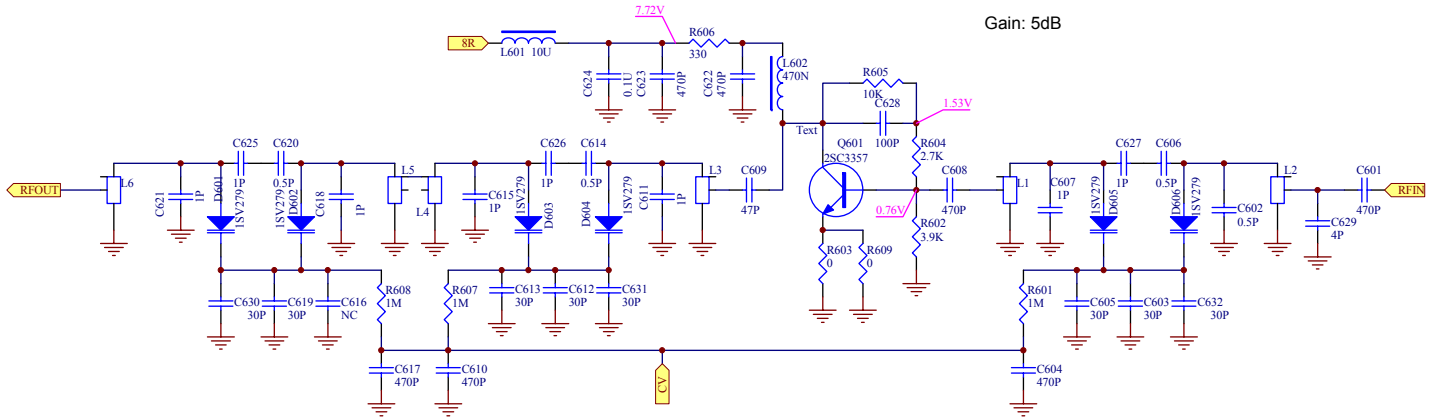
# TM-800 VHF Block Diagram



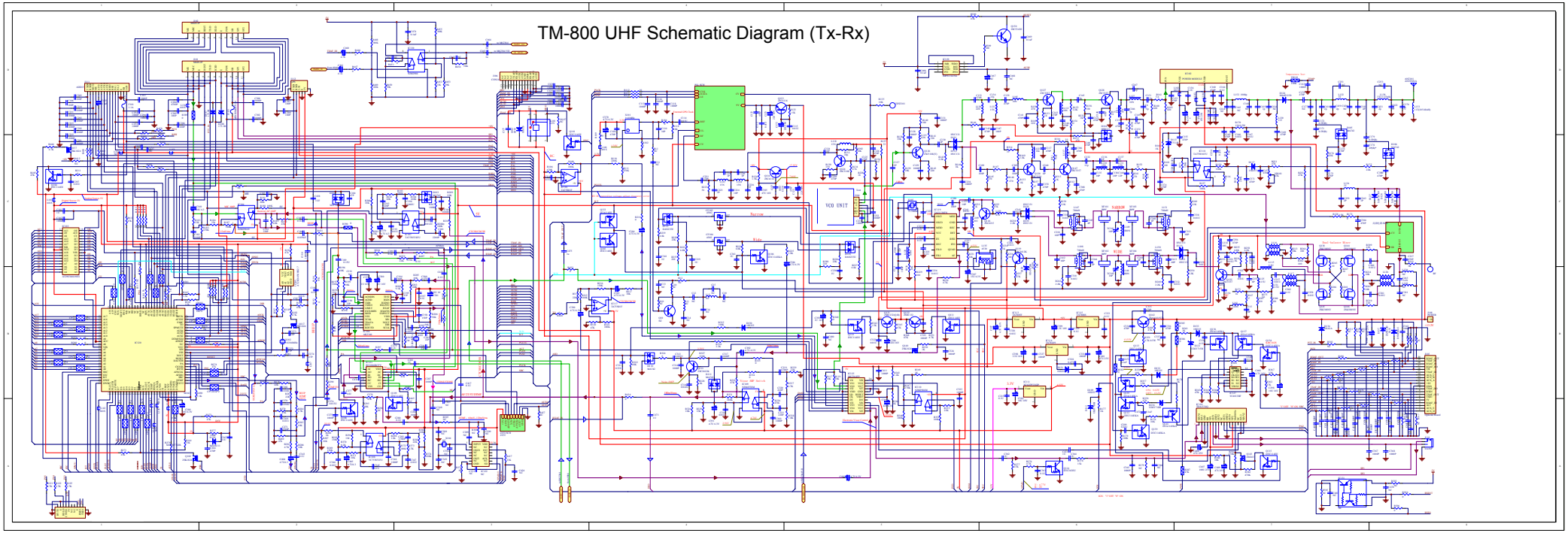
# TM-800 UHF Schematic Diagram (Frequency Mixer Circuit)



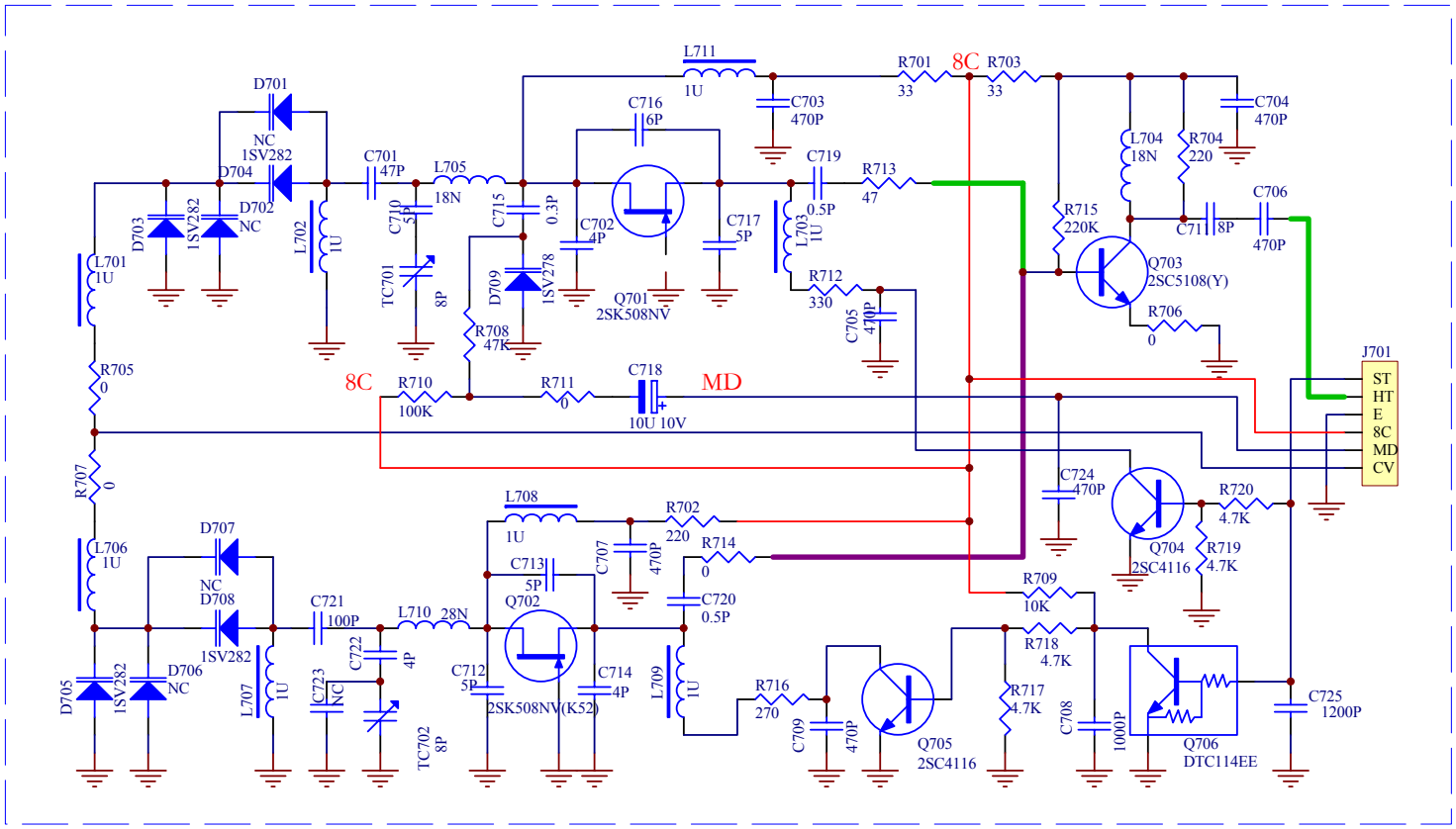
# TM-800 UHF Schematic Diagram (HF Amplifier Circuit)



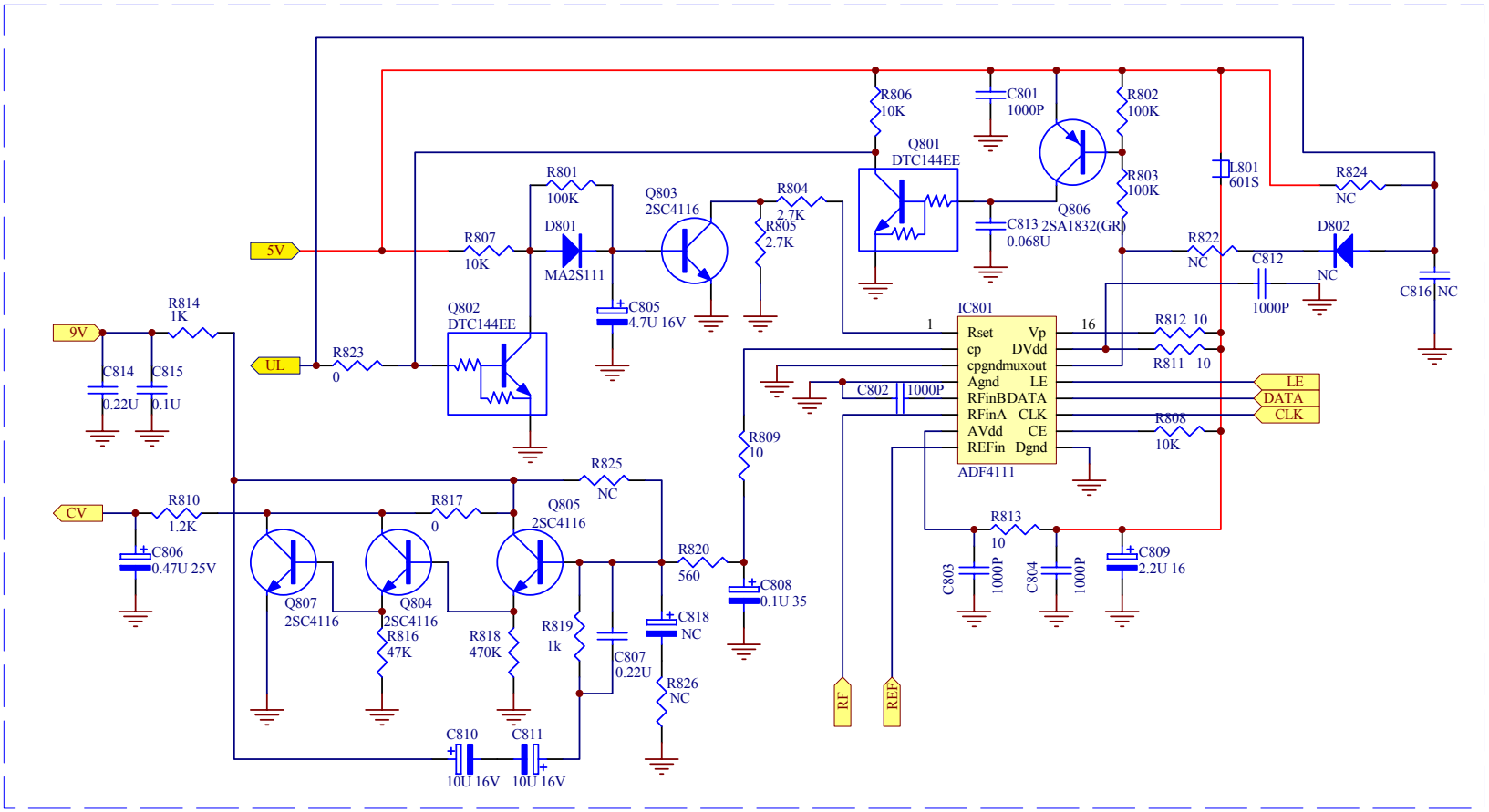
TM-800 UHF Schematic Diagram (Tx-Rx)



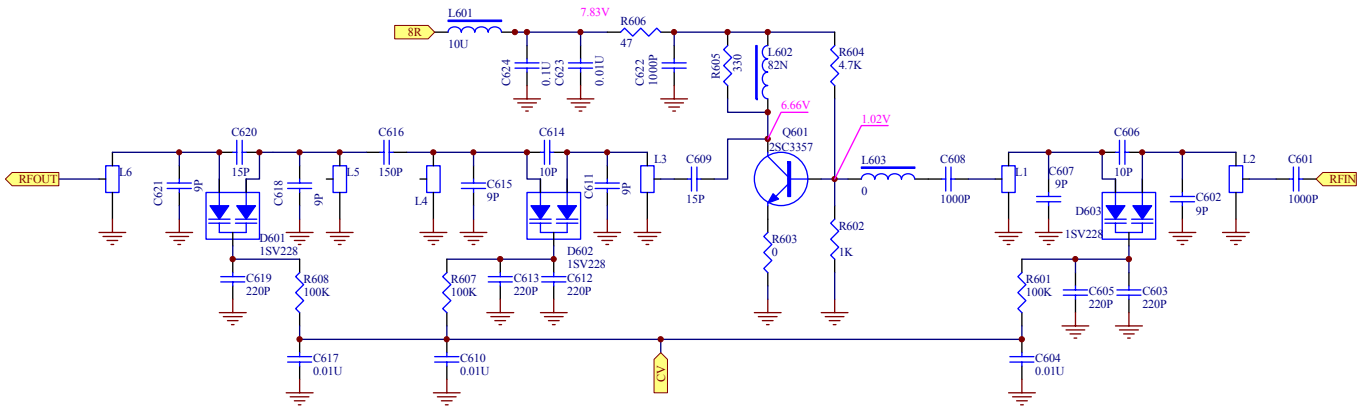
# TM-800 UHF Schematic Diagram (VCO Circuit)



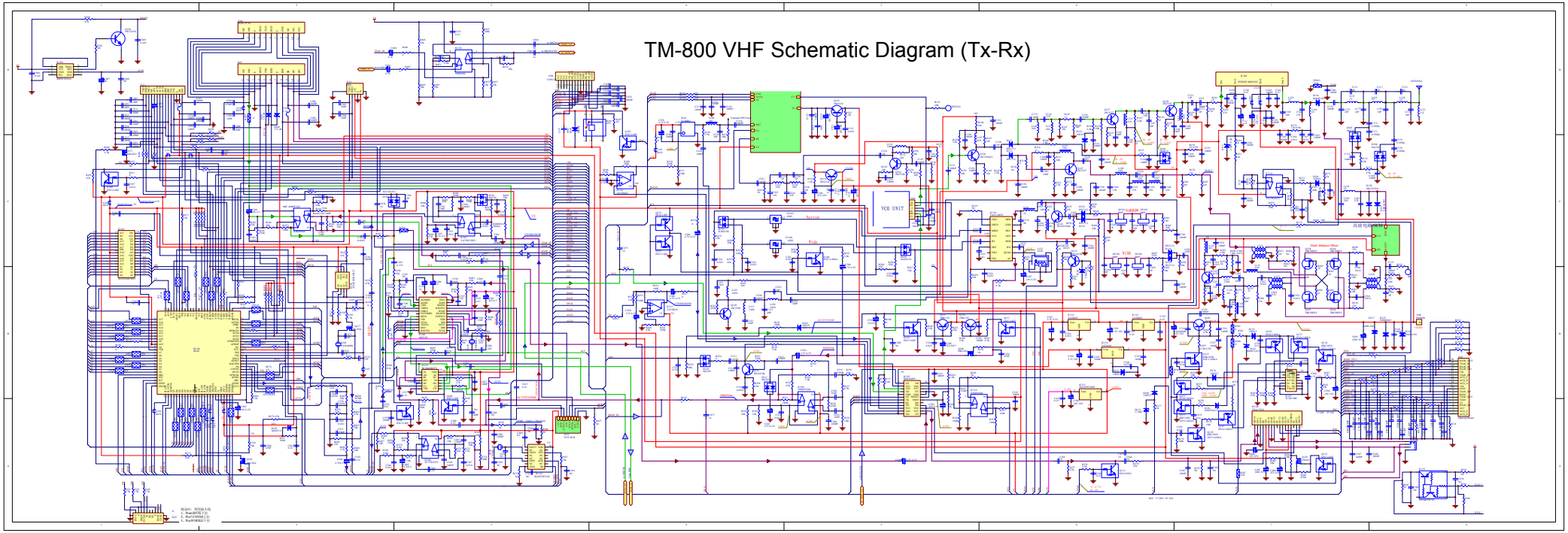
# TM-800 VHF Schematic Diagram (Frequency Mixer Circuit)



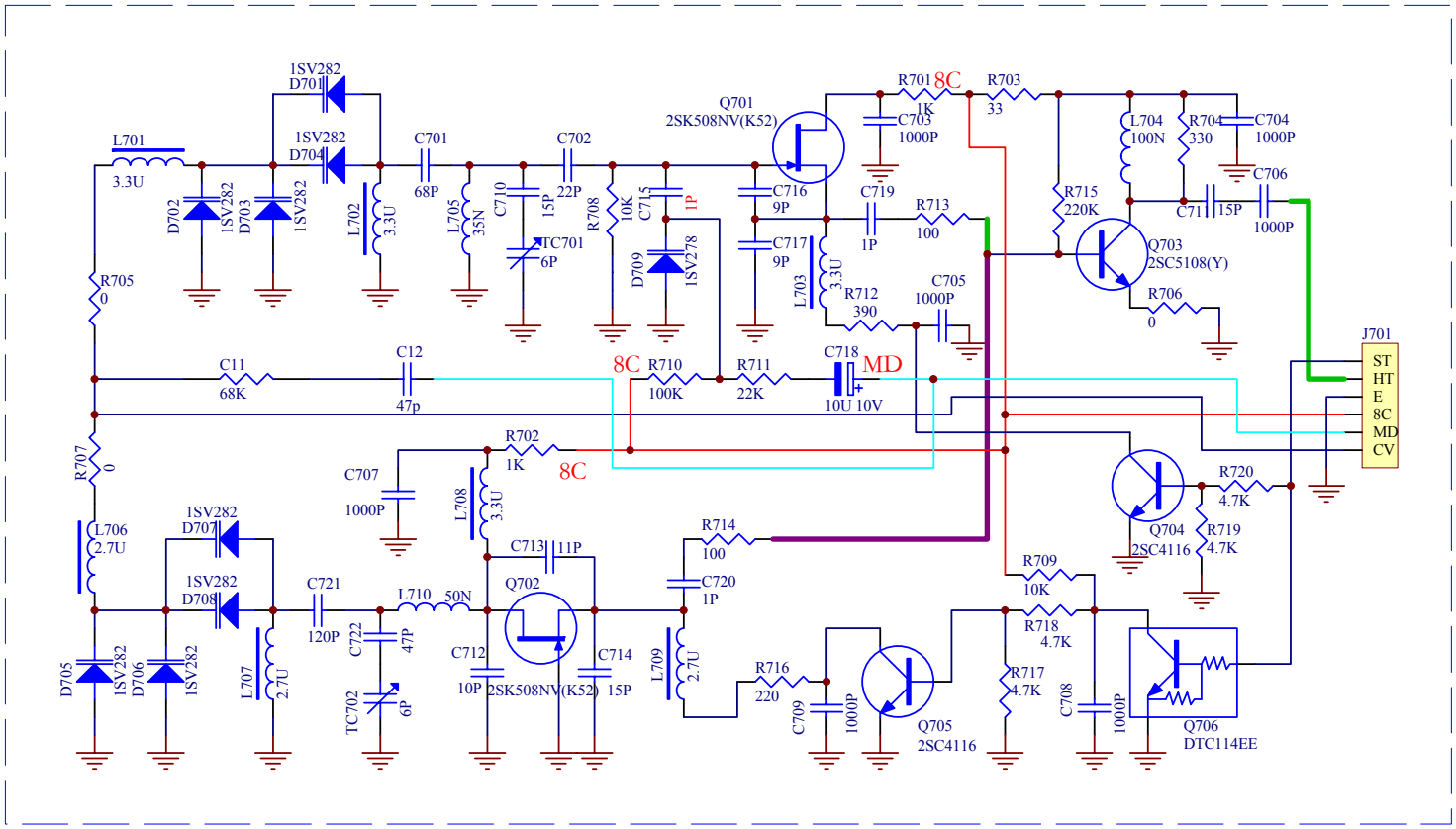
# TM-800 VHF Schematic Diagram (HF Amplifier Circuit)



TM-800 VHF Schematic Diagram (Tx-Rx)



# TM-800 VHF Schematic Diagram (VCO Circuit)



# Specifications

| General | | | |
|---|---|---|---|
| Frequency Range | | VHF: 136-174 MHz<br>UHF: 350-400 MHz 400-470 MHz<br>440-490 MHz 450-512 MHz<br>450-520MHz | |
| Number of Channels | | 512 | |
| Channel Spacing | | 25/12.5 KHz | |
| Operating Voltage | | 13.6V DC ±15% | |
| Current Drain | Standby Current | 0.5A | |
| | Rx Current | <2.0A | |
| | Tx Current | <5A(5W)/<8A(25W)/<12A(50W) | <5A(5W)/<8A(25W)/<12A(45W) |
| Operating Temperature Range | | -30℃~+60℃ | |
| Dimensions | | 164 mm×175mm×48mm | |
| Weight | | 1.685 Kg | |
| **Receiver** | | | |
| Reference Sensitivity | | 0.28/0.35 μV | |
| Adjacent Channel Selectivity | | 75/65dB | |
| Intermodulation Rejection | | 70/65dB | |
| Spurious Response | | 85dB (VHF)<br>80dB (UHF) | |
| Audio Power Output (Internal) | | 5W (Audio distortion<10%)<br>3W (Audio distortion <3%) | |
| Audio Power Output (External) | | 13W (Audio distortion<5%)<br>12W (Audio distortion<3%) | |
| Frequency Stability | | ±2ppm | |
| **Transmitter** | | | |
| RF Power Output | | VHF: 5W/25W /50W<br>UHF: 5W/25W/45W | |
| Spurious and Harmonics | | -36dBm<1GHz<br>-30dBm>1GHz | |
| Modulation Limitation | | 5.0KHZ(Wide) / 2.5KHZ(Narrow) | |
| FM Noise | | 48/42dB | |
| Audio Distortion | | ≤3% | |
| Frequency Stability | | ±2ppm | |

# Appendix: Entering Characters

**Entering characters with an optional microphone keypad**

| KEY | CHARACTER | | | | | | | | NUMBER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number of times key is pressed | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| 1 | Space | | | | | | | | 1 | Each key can generate numeric and character information. Pressing a key will cause the first character of the key's character cycle to appear on the LCD; Subsequent pressing of the same key will cause subsequent characters in the cycle to appear. For example, to enter the character "S", press the "7" key four (4) times. |
| 2 | A | B | C | a | b | c | | | 2 | |
| 3 | D | E | F | d | e | f | | | 3 | |
| 4 | G | H | I | g | h | i | | | 4 | |
| 5 | J | K | L | j | k | l | | | 5 | |
| 6 | M | N | O | m | n | o | | | 6 | |
| 7 | P | Q | R | S | p | q | r | s | 7 | |
| 8 | T | U | V | t | u | v | | | 8 | |
| 9 | W | X | Y | Z | w | x | y | z | 9 | |
| 0 | | | | | | | | | 0 | |
| A | @ | ! | # | $ | % | ^ | & | ~ | | |
| B | + | - | * | / | = | \ | _ | \| | | |
| C | ( | ) | < | > | [ | ] | { | } | | |
| D | , | . | ? | : | ; | " | ' | ` | | |
| * | Press to toggle between number and character | | | | | | | | | |
| # | Press to clear the input | | | | | | | | | |
| PTT | Enter (Complete programming and store) | | | | | | | | | |

## Entering characters without a keypad

① Turn Selector Knob to choose the character to be entered.

② Press the [PF2] key to toggle among number, uppercase letter, lowercase letter and symbol.

③ Press the [PF3] / [PF4] key to move the cursor forward/backward.

④ Press the [PF1] key to clear the input.

⑤ Press the [PF6] key to confirm the input.

HYT endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and design are subject to change without prior notice due to continuous technology development. Changes which may occur after publication are highlighted by Revision History contained in Service Manual.

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